new CPC					TEXT
A	01	H	6	00	Angiosperms, i.e. flowering plants, characterised by their botanic taxonomy
A	01	H	6	02	Amaranthaceae or Chenopodiaceae, e.g. beet or spinach
A	01	H	6	024	Beta vulgaris [beet]
A	01	H	6	028	Spinacia oleracea [spinach]
A	01	H	6	04	Amaryllidaceae, e.g. onion
A	01	H	6	045	Allium cepa [onion]
A	01	H	6	06	Apiaceae, e.g. celery or carrot
A	01	H	6	064	Apium graveolens [celery]
A	01	H	6	068	Daucus carota [carrot]
A	01	H	6	08	Apocynaceae, e.g. Madagascar periwinkle
A	01	H	6	084	Catharanthus, e.g. Madagascar periwinkle
A	01	H	6	088	Mandevilla
A	01	H	6	10	Aroideae, e.g. Zantedeschia
A	01	H	6	12	Asparagaceae, e.g. Hosta
A	01	H	6	14	Asteraceae or Compositae, e.g. safflower, sunflower, artichoke or lettuce
A	01	H	6	1408	Aster
A	01	H	6	1416	Carthamus tinctorius [safflower]
A	01	H	6	1424	Chrysanthemum
A	01	H	6	1432	Cynara cardunculus [artichoke]
A	01	H	6	144	Dahlia
A	01	H	6	1448	Echinacea
A	01	H	6	1456	Gerbera
A	01	H	6	1464	Helianthus annuus [sunflower]
A	01	H	6	1472	Lactuca sativa [lettuce]
A	01	H	6	148	Osteospermum
A	01	H	6	1488	Stevia
A	01	H	6	1496	Tagetes [marigold]
A	01	H	6	16	Balsaminaceae, e.g. Impatiens
A	01	H	6	165	Impatiens
A	01	H	6	18	Begoniaceae, e.g. Begonia
A	01	H	6	185	Begonia
A	01	H	6	20	Brassicaceae, e.g. canola, broccoli or rucola
A	01	H	6	201	Brassica juncea
A	01	H	6	202	Brassica napus [canola]
A	01	H	6	203	Brassica oleraceae, e.g. broccoli or kohlrabi
A	01	H	6	204	Brassica rapa
A	01	H	6	205	Eruca sativa [rucola, arugula or rocket]
A	01	H	6	206	Raphanus sativus [radish]
A	01	H	6	207	Sinapis alba [white mustard]
A	01	H	6	22	Bromeliaceae
A	01	H	6	223	Aechmea fasciata
A	01	H	6	225	Guzmania
A	01	H	6	228	Vriesea
A	01	H	6	24	Cactaceae, e.g. cactus or Easter cactus
A	01	H	6	26	Campanulaceae
A	01	H	6	264	Campanula
A	01	H	6	268	Lobelia
A	01	H	6	28	Cannabaceae, e.g. cannabis

A	01	H	6	30	Caryophyllaceae
A	01	H	6	305	Dianthus carnations
A	01	H	6	32	Crassulaceae
A	01	H	6	324	Kalanchoe
A	01	H	6	328	Sedum
A	01	H	6	34	Cucurbitaceae, e.g. bitter melon, cucumber or watermelon
A	01	H	6	342	Citrullus lanatus [watermelon]
A	01	H	6	344	Cucumis melo [melon]
A	01	H	6	346	Cucumis sativus[cucumber]
A	01	H	6	348	Cucurbita, e.g. squash or pumpkin
A	01	H	6	36	Ericaceae, e.g. azalea, cranberry or blueberry
A	01	H	6	364	Rhododendron, e.g. Azalea
A	01	H	6	368	Vaccinium, e.g. cranberry, blueberry
A	01	H	6	38	Euphorbiaceae, e.g. Poinsettia
A	01	H	6	385	Euphorbia, e.g. Poinsettia
A	01	H	6	40	Gentianaceae, e.g. Exacum
A	01	H	6	42	Geraniaceae, e.g. Geranium
A	01	H	6	425	Pelargonium [Geranium]
A	01	H	6	44	Gesneriaceae, e.g. African violet
A	01	H	6	444	Saintpaulia [African violet]
A	01	H	6	448	Streptocarpus
A	01	H	6	46	Gramineae or Poaceae, e.g. ryegrass, rice, wheat or maize
A	01	H	6	4606	Agrostis [bentgrass]
A	01	H	6	4612	Cynodon [Bermudagrass]
A	01	H	6	4618	Fescue
A	01	H	6	4624	Hordeum vulgarus [barley]
A	01	H	6	463	Lolium [ryegrass]
A	01	H	6	4636	Oryza sp. [rice]
A	01	H	6	4642	Panicum [switchgrass]
A	01	H	6	4648	Paspalum
A	01	H	6	4654	Pennisetum [pearl millet]
A	01	H	6	466	Poa, e.g. bluegrass
A	01	H	6	4666	Sorghum, e.g. sudangrass
A	01	H	6	4672	Triticale
A	01	H	6	4678	Triticum sp. [wheat]
A	01	H	6	4684	Zea mays [maize]
A	01	H	6	469	Zoysia
A	01	H	6	48	Hydrangeacae, e.g. Hydrangea
A	01	H	6	50	Laminaceae, e.g. lavender, mint or chia
A	01	H	6	502	Lavendula, e.g. lavender
A	01	H	6	504	Mentha sp., e.g. mint
A	01	H	6	506	Ocimum basilicum [basil]
A	01	H	6	508	Salvia sp., e.g. chia
A	01	H	6	52	Lauraceae, e.g. avocado
A	01	H	6	525	Persea [avocado]
A	01	H	6	54	Leguminosae or Fabaceae, e.g. soybean, alfalfa or peanut
A	01	H	6	541	Arachis hypogaea [peanut]
A	01	H	6	542	Glycine max [soybean]
A	01	H	6	543	Lupinus
A	01	H	6	544	Medicago sativa [alfalfa]

A	01	H	6	545	Phaseolus, e.g. kidney beans, scarlet runners or spotted beans
A	01	H	6	546	Pisum sativum [pea]
A	01	H	6	547	Vigna [cowpea]
A	01	H	6	56	Liliaceae, e.g. Alstroemeria or Lilium
A	01	H	6	564	Alstroemeria
A	01	H	6	568	Lilium
A	01	H	6	58	Linaceae, e.g. flax
A	01	H	6	60	Malvaceae, e.g. cotton or hibiscus
A	01	H	6	604	Gossypium [cotton]
A	01	H	6	608	Hibiscus
A	01	H	6	62	Orchidaceae [Orchid family]
A	01	H	6	64	Papaveraceae, e.g. poppy
A	01	H	6	66	Pedaliaceae, e.g. sesame
A	01	H	6	68	Plantaginaceae, e.g. Antirrhinum
A	01	H	6	70	Polemoniaceae, e.g. Phlox
A	01	H	6	72	Ranunculaceae, e.g. Clematis
A	01	H	6	74	Rosaceae, e.g. strawberry, apple, almonds, pear, rose, blackberries or raspberries
A	01	H	6	7409	Fragaria, i.e. strawberries
A	01	H	6	7418	Malus domestica, i.e. apples
A	01	H	6	7427	Prunus, e.g. almonds
A	01	H	6	7436	Apricots
A	01	H	6	7445	Cherries
A	01	H	6	7454	Nectarines
A	01	H	6	7463	Peaches
A	01	H	6	7472	Plums
A	01	H	6	7481	Pyrus, i.e. pears
A	01	H	6	749	Rosa, i.e. roses
A	01	H	6	7499	Rubus, e.g. blackberries or raspberries
A	01	H	6	76	Rubiaceae, e.g. Pentas
A	01	H	6	78	Rutaceae, e.g. lemons or limes
A	01	H	6	785	Citrus, e.g. lemons or limes
A	01	H	6	80	Saxifragaceae, e.g. Heuchera
A	01	H	6	82	Solanaceae, e.g. pepper, tobacco, potato, tomato or eggplant
A	01	H	6	821	Calibrachoa
A	01	H	6	822	Capsicum sp. [pepper]
A	01	H	6	823	Nicotiana, e.g. tobacco
A	01	H	6	824	Petunia
A	01	H	6	825	Solanum lycopersicum [tomato]
A	01	H	6	826	Solanum melongena [eggplant]
A	01	H	6	827	Solanum tuberosum [potato]
A	01	H	6	84	Urticaceae, e.g. ramie
A	01	H	6	86	Verbenaceae, e.g. Verbena
A	01	H	6	88	Vitaceae, e.g. Vitus [grape]
A	41	D	31	04	characterised by special function or use protective clothing affording protection against heat or harmful chemical agents A62B17/00; composition of materials for clothing affording protection against harmful chemical agents A62D5/00
A	41	D	31	06	Thermally protective, e.g. insulating
A	41	D	31	065	using layered materials

A	41	D	31	08	Heat resistantFire retardant
A	41	D	31	085	using layered materials
A	41	D	31	10	Impermeable to liquids, e.g. waterproofLiquid repellent
A	41	D	31	102	Waterproof and breathable
A	41	D	31	12	HygroscopicWater retaining
A	41	D	31	125	Moisture handling or wicking function through layered materials
A	41	D	31	14	Air permeable, i.e. capable of being penetrated by gases waterproof and breathable A41D31/102
A	41	D	31	145	using layered materials
A	41	D	31	18	Elastic
A	41	D	31	185	using layered materials
A	41	D	31	24	Resistant to mechanical stress, e.g. pierce-proof aprons resistant to mechanical aggressions A41D13/043
A	41	D	31	245	using layered materials
A	41	D	31	26	Electrically protective, e.g. preventing static electricity or electric shock
A	41	D	31	265	using layered materials
A	41	D	31	28	Shock absorbing
A	41	D	31	285	using layered materials
A	41	D	31	30	Antimicrobial, e.g. antibacterial
A	41	D	31	305	using layered materials
A	41	D	31	32	Retroreflective
A	41	D	31	325	using layered materials
A	47	C	1	0303	adjustable rectilinearly in vertical direction
A	47	C	1	0305	by peg-and-notch or pawl-and-ratchet mechanism
A	47	C	1	0307	adjustable rectilinearly in horizontal direction
A	47	C	1	0308	adjustable by rotation
A	47	C	1	03274	of torsion type
A	47	C	1	03279	of torsion type
A	47	C	3	0251	driven by electric motors
A	47	C	7	0213	detachably secured to seats, e.g. by ties or hook and loop straps
A	47	C	7	029	of non-adjustable shape adapted to a user contour or ergonomic seating positions
A	47	C	7	142	by fluid means
A	47	C	7	144	with array of movable supports
A	47	C	7	444	of torsion type
A	47	C	7	4454	of torsion type
A	47	C	7	5062	rectilinearly
A	47	C	7	5064	in vertical direction
A	47	C	7	5066	by rotation
A	47	C	7	5068	actuated by linkages
A	47	C	7	541	of adjustable type adjustable arm-rests of reclining or easy chairs A47C1/03
A	47	C	7	622	Receptacles, e.g. cup holders, storage containers
A	47	C	7	624	located on side of seat, e.g. on armrest
A	47	C	7	626	directly under the seat
A	47	C	7	628	accessible by displacement of seat
A	47	C	7	664	of umbrella type
A	47	C	7	666	of enclosure type with side panels
A	47	C	7	705	of detachable type
A	47	C	7	723	with display screens

A	47	C	7	727	with speakers
A	47	J	19	023	including a pressing cone or reamer
A	47	J	31	461	Valves, e.g. drain valves
A	47	J	31	468	Pumping means
A	47	J	31	469	Details of hydraulic circuits
A	47	J	31	521	the electronic control being performed over a network, e.g. by means of a computer or a handheld device
A	47	J	31	525	the electronic control being based on monitoring of specific process parameters
A	47	J	31	5251	of pressure
A	47	J	31	5253	of temperature
A	47	J	31	5255	of flow rate
A	47	J	36	321	the electronic control being performed over a network, e.g. by means of a handheld device
A	61	B	5	0036	including treatment, e.g., using an implantable medical device, ablating, ventilating
A	61	K	2039	80	Vaccine for a specifically defined cancer
A	61	K	2039	804	Blood cells [leukemia, lymphoma]
A	61	K	2039	812	Breast
A	61	K	2039	82	Colon
A	61	K	2039	828	Stomach
A	61	K	2039	836	Intestine
A	61	K	2039	844	Liver
A	61	K	2039	852	Pancreas
A	61	K	2039	86	Lung
A	61	K	2039	868	kidney
A	61	K	2039	876	Skin, melanoma
A	61	K	2039	884	prostate
A	61	K	2039	892	Reproductive system [uterus, ovaries, cervix, testes]
A	61	K	33	241	LeadCompounds thereof
A	61	K	33	242	GoldCompounds thereof
A	61	K	33	243	PlatinumCompounds thereof
A	61	K	33	244	LanthanidesCompounds thereof medicinal preparations containing radioactive lanthanides for use in therapy or testing in vivoA61K51/00
A	61	K	38	095	OxytocinsVasopressinsRelated peptides
A	61	K	39	001102	Receptors, cell surface antigens or cell surface determinants
A	61	K	39	001103	Receptors for growth factors
A	61	K	39	001104	Epidermal growth factor receptors [EGFR]
A	61	K	39	001106	Her-2/neu/ErbB2, Her-3/ErbB3, Her 4/ErbB4
A	61	K	39	001107	Fibroblast growth factor receptors [FGFR]
A	61	K	39	001108	Platelet-derived growth factor receptors [PDGFR]
A	61	K	39	001109	[Vascular endothelial growth factor receptors [VEGFR]
A	61	K	39	00111	Hepatocyte growth factor receptor [HGFR or c-met]
A	61	K	39	001111	Immunoglobulin superfamily
A	61	K	39	001112	CD19, B4
A	61	K	39	001113	CD22, BL-CAM, siglec-2, sialic acid- binding Ig-related lectin 2
A	61	K	39	001114	CD74, Ii, MHC class II invariant chain, MHC class II gamma chain
A	61	K	39	001116	Receptors for cytokines
A	61	K	39	001117	Receptors for tumor necrosis factors [TNF], e.g. lymphotoxin receptor [LTR], CD30

A	61	K	39	001118	Receptors for colony stimulating factors [CSF]
A	61	K	39	001119	Receptors for interleukins [IL]
A	61	K	39	00112	Receptors for interferons [IFN]
A	61	K	39	001121	Receptors for chemokines
A	61	K	39	001122	Ephrin Receptors [Eph]
A	61	K	39	001124	CD20
A	61	K	39	001126	CD38 not IgG
A	61	K	39	001128	CD44 not IgG
A	61	K	39	001129	Molecules with a "CD" designation not provided for elsewhere
A	61	K	39	00113	Growth factors
A	61	K	39	001131	Epidermal growth factor [EGF]
A	61	K	39	001132	Fibroblast growth factors [FGF]
A	61	K	39	001133	Platelet-derived growth factor [PDGF]
A	61	K	39	001134	Transforming growth factor [TGF]
A	61	K	39	001135	Vascular endothelial growth factor [VEGF]
A	61	K	39	001136	Cytokines
A	61	K	39	001138	Tumor necrosis factors [TNF], CD70
A	61	K	39	001139	Colony stimulating factors [CSF]
A	61	K	39	00114	Interleukins [IL]
A	61	K	39	001141	Interferons [IFN]
A	61	K	39	001142	Chemokines
A	61	K	39	001144	Hormones, e.g. calcitonin
A	61	K	39	001148	Regulators of development
A	61	K	39	001149	Cell cycle regulated proteins, e.g. cyclin, CDC, CDK, INK-CCR
A	61	K	39	00115	Apoptosis related proteins, e.g. survivin, livin
A	61	K	39	001151	p53
A	61	K	39	001152	Transcription factors, e.g. SOX, c-MYC
A	61	K	39	001153	Wilms tumor 1 [WT1]
A	61	K	39	001154	Enzymes
A	61	K	39	001156	Tyrosinase and tyrosinase related proteinases [TRP-1, TRP-2]
A	61	K	39	001157	Telomerase, TERT [telomerase reverse transcriptase]
A	61	K	39	001158	Proteinases
A	61	K	39	001159	Matrix metalloproteinases [MMP]
A	61	K	39	00116	Serine proteases, e.g. kallikrein
A	61	K	39	001161	Caspases
A	61	K	39	001162	Kinases, e.g. Raf, Src
A	61	K	39	001163	Phosphatases
A	61	K	39	001164	GTPases, e.g. Ras, Rho
A	61	K	39	001166	Adhesion molecules, e.g. NRCAM, EpCAM, cadherins
A	61	K	39	001168	Mesothelin [MSLN]
A	61	K	39	001169	Tumor associated carbohydrates
A	61	K	39	00117	Mucins, e.g. MUC-1
A	61	K	39	001171	Gangliosides, e.g. GM2, GD2, GD3
A	61	K	39	001172	sialyl Thomson-nouvelle antigen [sTN]
A	61	K	39	001173	Globo-H
A	61	K	39	001174	Proteoglycans, e.g. glypican, brevican, CSPG4
A	61	K	39	001176	Heat shock proteins
A	61	K	39	001178	Tumor rejection antigen precursor [TRAP]
A	61	K	39	00118	from embryonic or fetal origin
A	61	K	39	001181	Alpha-feto protein

A	61	K	39	001182	Carcinoembryonic antigen [CEA]
A	61	K	39	001184	Cancer testis antigens, e.g. SSX, BAGE, GAGE, SAGE
A	61	K	39	001186	MAGE
A	61	K	39	001188	NY-ESO
A	61	K	39	001189	PRAME
A	61	K	39	00119	Melanoma antigens
A	61	K	39	001191	Melan-A/MART
A	61	K	39	001192	Glycoprotein 100 [Gp100]
A	61	K	39	001193	Prostate associated antigens e.g. Prostate stem cell antigen [PSCA]; Prostate carcinoma tumor antigen [PCTA]; PAP, PSGR
A	61	K	39	001194	Prostate specific antigen [PSA]
A	61	K	39	001195	Prostate specific membrane antigen [PSMA]
A	61	K	39	001196	Fusion proteins originating from gene translocation in cancer cells
A	61	K	39	001197	Breakpoint cluster region-abelson tyrosine kinase [BCR-ABL]
A	61	K	39	001198	Pml-RARalpha
A	63	B	67	165	the diabolo being able to rotate freely in one direction only, e.g. fitted with an over-running clutch
B	05	B	1	002	designed to reduce the generation or the transmission of noise or to produce a particular sound; associated with noise monitoring means
B	05	B	1	3402	to avoid or to reduce turbulencies, e.g. comprising fluid flow straightening means
B	05	B	11	0038	Inner container disposed in an outer shell or outer casing
B	05	B	11	0039	associated with means for compensating the pressure difference between the ambient pressure and the pressure inside the container, e.g. pressure relief means
B	05	B	11	0041	compensating underpressure without contact of the fluid remaining in the container with the atmospheric air
B	05	B	11	00411	the means being an inert gas
B	05	B	11	00412	the means being a collapsible or foldable bag or membrane
B	05	B	11	00414	the bag or membrane being inverted during the outflow of the liquid or other fluent material
B	05	B	11	00416	the means being a following piston
B	05	B	11	00418	located on top of the remaining liquid or other fluent material
B	05	B	11	0044	compensating underpressure by ingress of atmospheric air into the container, i.e. with venting means venting means for deformable containers B05B11/047
B	05	B	11	00442	the means being actuated by the difference between the atmospheric pressure and the pressure inside the container
B	05	B	11	00444	with provision for filtering or cleaning the air flow drawn into the container
B	05	B	11	00446	the means being located at the bottom of the container or of an enclosure surrounding the container
B	05	B	12	0022	associated with means for restricting their movement
B	05	B	12	0024	to a single position
B	05	B	12	0026	to inhibit delivery
B	23	K	2101	00	Articles made by soldering, welding or cutting
B	23	K	2101	001	Turbines
B	23	K	2101	002	Drill-bits
B	23	K	2101	003	Pistons
B	23	K	2101	005	Camshafts
B	23	K	2101	006	Vehicles

B	23	K	2101	007	Marks, e.g. trade marks
B	23	K	2101	008	Gears
B	23	K	2101	02	Honeycomb structures
B	23	K	2101	04	Tubular or hollow articles
B	23	K	2101	045	Hollow panels
B	23	K	2101	06	Tubes
B	23	K	2101	08	finned or ribbed
B	23	K	2101	10	Pipe-lines
B	23	K	2101	12	Vessels
B	23	K	2101	125	Cans
B	23	K	2101	14	Heat exchangers
B	23	K	2101	16	Bands or sheets of indefinite length
B	23	K	2101	18	Sheet panels
B	23	K	2101	185	Tailored blanks
B	23	K	2101	20	Tools
B	23	K	2101	22	Nets, wire fabrics or the like
B	23	K	2101	24	Frameworks
B	23	K	2101	26	Railway- or like rails
B	23	K	2101	28	Beams
B	23	K	2101	30	Chains, hoops or rings
B	23	K	2101	32	Wires
B	23	K	2101	34	Coated articles , e.g. plated or painted; Surface treated articles
B	23	K	2101	35	Surface treated articles
B	23	K	2101	36	Electric or electronic devices
B	23	K	2101	38	Conductors
B	23	K	2101	40	Semiconductor devices
B	23	K	2101	42	Printed circuits
B	23	K	2103	00	Materials to be soldered, welded or cut
B	23	K	2103	02	Iron or ferrous alloys
B	23	K	2103	04	Steel or steel alloys
B	23	K	2103	05	Stainless steel
B	23	K	2103	06	Cast-iron alloys
B	23	K	2103	08	Non-ferrous metals or alloys
B	23	K	2103	10	Aluminium or alloys thereof
B	23	K	2103	12	Copper or alloys thereof
B	23	K	2103	14	Titanium or alloys thereof
B	23	K	2103	15	Magnesium or alloys thereof
B	23	K	2103	16	Composite materials , e.g. fibre reinforced
B	23	K	2103	166	Multilayered materials
B	23	K	2103	172	wherein at least one of the layers is non-metallic
B	23	K	2103	18	Dissimilar materials
B	23	K	2103	20	Ferrous alloys and aluminium or alloys thereof
B	23	K	2103	22	Ferrous alloys and copper or alloys thereof
B	23	K	2103	24	Ferrous alloys and titanium or alloys thereof
B	23	K	2103	26	Alloys of Nickel and Cobalt and Chromium
B	23	K	2103	30	Organic material
B	23	K	2103	32	Material from living organisms, e.g. skins
B	23	K	2103	34	Leather
B	23	K	2103	36	Wood or similar materials
B	23	K	2103	38	Fabrics, fibrous materials

B	23	K	2103	40	Paper
B	23	K	2103	42	Plastics B23K2103/16 takes precedence
B	23	K	2103	50	Inorganic material, e.g. metals, not provided for in B23K2103/02 – B23K2103/26
B	23	K	2103	52	Ceramics
B	23	K	2103	54	Glass
B	23	K	2103	56	semiconducting semiconducting devices B23K2101/40
B	23	K	26	355	Texturing
B	23	K	26	3568	Modifying rugosity
B	23	K	26	3576	Diminishing rugosity, e.g. grinding; Polishing; Smoothing
B	23	K	26	3584	Increasing rugosity, e.g. roughening
B	29	C	2948	00	Indexing scheme relating to extrusion moulding
B	29	C	2948	92	Measuring, controlling or regulating
B	29	C	2948	92009	Measured parameter
B	29	C	2948	92019	Pressure
B	29	C	2948	92028	ForceTension
B	29	C	2948	92038	Torque
B	29	C	2948	92047	Energy, power, electric current or voltage
B	29	C	2948	92057	Frequency
B	29	C	2948	92066	Time, e.g. start, termination, duration or interruption
B	29	C	2948	92076	Position, e.g. linear or angular
B	29	C	2948	92085	Velocity
B	29	C	2948	92095	Angular velocity
B	29	C	2948	92104	Flow or feed rate
B	29	C	2948	92114	Dimensions
B	29	C	2948	92123	Diameter or circumference
B	29	C	2948	92133	Width or height
B	29	C	2948	92142	Length
B	29	C	2948	92152	Thickness
B	29	C	2948	92161	Volume or quantity
B	29	C	2948	92171	Distortion, shrinkage, dilatation, swell or warpage
B	29	C	2948	9218	Weight
B	29	C	2948	9219	Density, e.g. per unit length or area
B	29	C	2948	922	ViscosityMelt flow index [MFI]Molecular weight
B	29	C	2948	92209	Temperature
B	29	C	2948	92219	Degree of crosslinking, solidification, crystallinity or homogeneity
B	29	C	2948	92228	Content, e.g. percentage of humidity, volatiles, contaminants or degassing
B	29	C	2948	92238	Electrical properties
B	29	C	2948	92247	Optical properties
B	29	C	2948	92257	Colour
B	29	C	2948	92266	Mechanical properties
B	29	C	2948	92276	Magnetic properties
B	29	C	2948	92285	Surface properties
B	29	C	2948	92295	Errors or malfunctioning, e.g. for quality control
B	29	C	2948	92304	Presence or absenceSequenceCounting
B	29	C	2948	92314	Particular value claimed
B	29	C	2948	92323	Location or phase of measurement
B	29	C	2948	92333	Raw material handling or dosing, e.g. active hopper or feeding device
B	29	C	2948	92342	Raw material pre-treatment, e.g. drying or cleaning

B	29	C	2948	92352	Inserts
B	29	C	2948	92361	Extrusion unit
B	29	C	2948	92371	Inlet shaft or slot, e.g. passive hopperInjector, e.g. injector nozzle on barrel
B	29	C	2948	9238	Feeding, melting, plasticising or pumping zones, e.g. the melt itself
B	29	C	2948	9239	Screw or gear
B	29	C	2948	924	Barrel or housing
B	29	C	2948	92409	DieNozzle zone
B	29	C	2948	92419	Degassing unit
B	29	C	2948	92428	Calibration, after-treatment, or cooling zone
B	29	C	2948	92438	Conveying, transporting or storage of articles
B	29	C	2948	92447	Moulded article
B	29	C	2948	92457	Drive section, e.g. gearbox, motor or drive fluids
B	29	C	2948	92466	Auxiliary unit, e.g. for external melt filtering, re-combining or transfer between units
B	29	C	2948	92476	Fluids, e.g. for temperature control or of environment
B	29	C	2948	92485	Start-up, shut-down or parameter setting phaseEmergency shut-downMaterial changeTest or laboratory equipment or studies
B	29	C	2948	92495	Treatment of equipment, e.g. purging, cleaning, lubricating or filter exchange
B	29	C	2948	92504	Controlled parameter
B	29	C	2948	92514	Pressure
B	29	C	2948	92523	ForceTension
B	29	C	2948	92533	Torque
B	29	C	2948	92542	Energy, power, electric current or voltage
B	29	C	2948	92552	Frequency
B	29	C	2948	92561	Time, e.g. start, termination, duration or interruption
B	29	C	2948	92571	Position, e.g. linear or angular
B	29	C	2948	9258	Velocity
B	29	C	2948	9259	Angular velocity
B	29	C	2948	926	Flow or feed rate
B	29	C	2948	92609	Dimensions
B	29	C	2948	92619	Diameter or circumference
B	29	C	2948	92628	Width or height
B	29	C	2948	92638	Length
B	29	C	2948	92647	Thickness
B	29	C	2948	92657	Volume or quantity
B	29	C	2948	92666	Distortion, shrinkage, dilatation, swell or warpage
B	29	C	2948	92676	Weight
B	29	C	2948	92685	Density, e.g. per unit length or area
B	29	C	2948	92695	ViscosityMelt flow index [MFI]Molecular weight
B	29	C	2948	92704	Temperature
B	29	C	2948	92714	Degree of crosslinking, solidification, crystallinity or homogeneity
B	29	C	2948	92723	Content, e.g. percentage of humidity, volatiles, contaminants or degassing
B	29	C	2948	92733	Electrical properties
B	29	C	2948	92742	Optical properties
B	29	C	2948	92752	Colour
B	29	C	2948	92761	Mechanical properties
B	29	C	2948	92771	Magnetic properties

B	29	C	2948	9278	Surface properties
B	29	C	2948	9279	Errors or malfunctioning, e.g. for quality control
B	29	C	2948	928	Presence or absenceSequenceCounting
B	29	C	2948	92809	Particular value claimed
B	29	C	2948	92819	Location or phase of control
B	29	C	2948	92828	Raw material handling or dosing, e.g. active hopper or feeding device
B	29	C	2948	92838	Raw material pre-treatment, e.g. drying or cleaning
B	29	C	2948	92847	Inserts
B	29	C	2948	92857	Extrusion unit
B	29	C	2948	92866	Inlet shaft or slot, e.g. passive hopperInjector, e.g. injector nozzle on barrel
B	29	C	2948	92876	Feeding, melting, plasticising or pumping zones, e.g. the melt itself
B	29	C	2948	92885	Screw or gear
B	29	C	2948	92895	Barrel or housing
B	29	C	2948	92904	DieNozzle zone
B	29	C	2948	92914	Degassing unit
B	29	C	2948	92923	Calibration, after-treatment or cooling zone
B	29	C	2948	92933	Conveying, transporting or storage of articles
B	29	C	2948	92942	Moulded article
B	29	C	2948	92952	Drive section, e.g. gearbox, motor or drive fluids
B	29	C	2948	92961	Auxiliary unit, e.g. for external melt filtering, re-combining or transfer between units
B	29	C	2948	92971	Fluids, e.g. for temperature control or of environment
B	29	C	2948	9298	Start-up, shut-down or parameter setting phaseEmergency shut-downMaterial changeTest or laboratory equipment or studies
B	29	C	2948	9299	Treatment of equipment, e.g. purging, cleaning, lubricating or filter exchange
B	29	C	48	00	Extrusion moulding, i.e. expressing the moulding material through a die or nozzle which imparts the desired formApparatus therefor extrusion blow-moulding B29C49/04
B	29	C	48	001	Combinations of extrusion moulding with other shaping operations
B	29	C	48	0011	combined with compression moulding
B	29	C	48	0012	combined with shaping by internal pressure generated in the material, e.g. foaming
B	29	C	48	0013	Extrusion moulding in several steps, i.e. components merging outside the die B29C48/15 takes precedence
B	29	C	48	0014	producing flat articles having components brought in contact outside the extrusion die
B	29	C	48	0015	producing hollow articles having components brought in contact outside the extrusion die
B	29	C	48	0016	using a plurality of extrusion dies
B	29	C	48	0017	combined with blow-moulding or thermoforming
B	29	C	48	0018	combined with shaping by orienting, stretching or shrinking, e.g. film blowing B29C48/0017 takes precedence
B	29	C	48	0019	combined with shaping by flattening, folding or bending
B	29	C	48	002	combined with surface shaping
B	29	C	48	0021	combined with joining, lining or laminating
B	29	C	48	0022	combined with cutting
B	29	C	48	0023	combined with printing or marking
B	29	C	48	02	Small extruding apparatus, e.g. handheld, toy or laboratory extruders

B	29	C	48	022	characterised by the choice of material
B	29	C	48	023	Extruding materials comprising incompatible ingredients
B	29	C	48	025	General arrangement or layout of plant
B	29	C	48	0255	for extruding parallel streams of material, e.g. several separate parallel streams of extruded material forming separate articles B29C48/0013, B29C48/345 takes precedence
B	29	C	48	03	characterised by the shape of the extruded material at extrusion
B	29	C	48	04	Particle-shaped making granules B29B9/00
B	29	C	48	05	Filamentary, e.g. strands
B	29	C	48	06	Rod-shaped
B	29	C	48	07	Flat, e.g. panels
B	29	C	48	08	flexible, e.g. films
B	29	C	48	09	Articles with cross-sections having partially or fully enclosed cavities, e.g. pipes or channels
B	29	C	48	10	flexible, e.g. blown foils
B	29	C	48	11	comprising two or more partially or fully enclosed cavities, e.g. honeycomb-shaped
B	29	C	48	12	Articles with an irregular circumference when viewed in cross-section, e.g. window profiles
B	29	C	48	13	Articles with a cross-section varying in the longitudinal direction, e.g. corrugated pipes
B	29	C	48	131	Curved articles
B	29	C	48	14	characterised by the particular extruding conditions, e.g. in a modified atmosphere or by using vibration
B	29	C	48	141	extruding in a clean room
B	29	C	48	142	using force fields, e.g. gravity or electrical fields B29C48/9165 takes precedence
B	29	C	48	143	at a location before or in the feed unit, e.g. influencing the material in the hopper
B	29	C	48	144	at the plasticising zone
B	29	C	48	145	at a venting zone
B	29	C	48	146	in the die
B	29	C	48	147	after the die nozzle
B	29	C	48	1472	at the die nozzle exit zone
B	29	C	48	1474	at a calibration zone
B	29	C	48	1476	at a conveyor
B	29	C	48	1478	at a storing zone
B	29	C	48	15	incorporating preformed parts or layers, e.g. extrusion moulding around inserts
B	29	C	48	151	Coating hollow articles
B	29	C	48	152	the inner surfaces thereof
B	29	C	48	153	Coating both inner and outer surfaces
B	29	C	48	154	Coating solid articles, i.e. non-hollow articles
B	29	C	48	155	Partial coating thereof
B	29	C	48	156	Coating two or more articles simultaneously
B	29	C	48	157	Coating linked inserts, e.g. chains
B	29	C	48	16	Articles comprising two or more components, e.g. co-extruded layers
B	29	C	48	17	the components having different colours
B	29	C	48	175	comprising a multi-coloured single component, e.g. striated, marbled or wood-like patterned

B	29	C	48	18	the components being layers
B	29	C	48	185	comprising six or more components, i.e. each component being counted once for each time it is present, e.g. in a layer
B	29	C	48	19	the layers being joined at their edges
B	29	C	48	20	one of the layers being a strip, e.g. a partially embedded strip
B	29	C	48	21	the layers being joined at their surfaces
B	29	C	48	22	with means connecting the layers, e.g. tie layers or undercuts
B	29	C	48	23	with means for avoiding adhesion of the layers, e.g. for forming peelable layers
B	29	C	48	25	Component parts, details or accessoriesAuxiliary operations
B	29	C	48	251	Design of extruder parts, e.g. by modelling based on mathematical theories or experiments
B	29	C	48	2511	by modelling material flow, e.g. melt interaction with screw and barrel
B	29	C	48	2513	in the plasticising zone
B	29	C	48	2515	in the die zone
B	29	C	48	2517	of intermeshing screws
B	29	C	48	2519	by modelling of mechanical strength
B	29	C	48	252	Drive or actuation means; Transmission means; Screw supporting means
B	29	C	48	2522	Shaft or screw supports, e.g. bearings
B	29	C	48	2526	Direct drives or gear boxes
B	29	C	48	2528	Drive or actuation means for non-plasticising purposes, e.g. dosing unit
B	29	C	48	254	Sealing means
B	29	C	48	2545	for filters
B	29	C	48	255	Flow control means, e.g. valves flow dividers B29C48/695
B	29	C	48	2552	provided in the feeding, melting, plasticising or pumping zone, e.g. screw, barrel, gear-pump or ram
B	29	C	48	2554	provided in or in the proximity of filter devices
B	29	C	48	2556	provided in or in the proximity of dies B29C48/302, B29C48/31, B29C48/325 take precedence
B	29	C	48	256	Exchangeable extruder parts B29C48/691 takes precedence
B	29	C	48	2561	Mounting or handling of the screw
B	29	C	48	2562	Mounting or handling of the die
B	29	C	48	2563	Mounting or handling of the hopper or feeder
B	29	C	48	2564	Screw parts
B	29	C	48	2565	Barrel parts
B	29	C	48	2566	Die parts
B	29	C	48	2567	Hopper or feeder parts
B	29	C	48	2568	Inserts
B	29	C	48	25682	for screws
B	29	C	48	25684	for barrels
B	29	C	48	25686	for dies
B	29	C	48	265	Support structures or bases for apparatus, e.g. frames
B	29	C	48	266	Means for allowing relative movements between the apparatus parts, e.g. for twisting the extruded article or for moving the die along a surface to be coated
B	29	C	48	2665	allowing small relative movement, e.g. adjustments for aligning the apparatus parts or for compensating for thermal expansion
B	29	C	48	267	Intermediate treatments, e.g. relaxation, annealing or decompression step for the melt B29C48/76 takes precedence

					Throttling of the flow, e.g. for cooperating with plasticising elements or for
B	29	C	48	268	degassing flow control means B29C48/255
B	29	C	48	269	Extrusion in non-steady condition, e.g. start-up or shut-down
B	29	C	48	2692	Material change
B	29	C	48	2694	Intermittent extrusion
B	29	C	48	27	CleaningPurgingAvoiding contamination
B	29	C	48	271	of feeding units
B	29	C	48	2715	of plasticising units
B	29	C	48	272	of dies
B	29	C	48	2725	of filters
B	29	C	48	273	using back flow
B	29	C	48	2735	using scrapers
B	29	C	48	274	of the extruded articles
B	29	C	48	275	Recovery or reuse of energy or materials
B	29	C	48	276	of energy
B	29	C	48	277	of materials
B	29	C	48	278	of additives or processing aids
B	29	C	48	28	Storing of extruded material, e.g. by winding up or stacking
B	29	C	48	285	Feeding the extrusion material to the extruder
B	29	C	48	286	Raw material dosing
B	29	C	48	287	Raw material pre-treatment while feeding B29C48/78 takes precedence
B	29	C	48	288	in solid form, e.g. powder or granules
					of preformed parts, e.g. inserts fed and transported generally uninfluenced
B	29	C	48	2883	through the extruder or inserts fed directly to the die
					of fibrous, filamentary or filling materials, e.g. thin fibrous reinforcements or
B	29	C	48	2886	fillers
B	29	C	48	2888	in band or in strip form, e.g. rubber strips
B	29	C	48	29	in liquid form
B	29	C	48	295	in gaseous form
					at several locations, e.g. using several hoppers or using a separate additive
B	29	C	48	297	feeding
B	29	C	48	298	in a location other than through a barrel, e.g. through a screw
					Extrusion nozzles or dies extrusion characterised by the shape or cross-
B	29	C	48	30	section of the extruded article B29C48/03
B	29	C	48	3001	characterised by the material or their manufacturing process
B	29	C	48	3003	Materials, coating or lining therefor
B	29	C	48	301	having reciprocating, oscillating or rotating parts
B	29	C	48	302	being adjustable, i.e. having adjustable exit sections
					using dies or die parts movable in a closed circuit, e.g. mounted on movable
B	29	C	48	303	endless support B29C48/35 takes precedence
B	29	C	48	304	specially adapted for bringing together components, e.g. melts within the die
B	29	C	48	305	having a wide opening, e.g. for forming sheets
B	29	C	48	307	specially adapted for bringing together components, e.g. melts within the die
B	29	C	48	31	being adjustable , i.e. having adjustable exit sections
B	29	C	48	313	by positioning the die lips
B	29	C	48	315	with parts oscillating relative to each other
B	29	C	48	32	with annular openings, e.g. for forming tubular articles
B	29	C	48	325	being adjustable , i.e. having adjustable exit sections

B	29	C	48	327	with centering means
B	29	C	48	33	with parts rotatable relative to each other
B	29	C	48	335	Multiple annular extrusion nozzles in coaxial arrangement, e.g. for making multi-layered tubular articles
B	29	C	48	336	the components merging one by one down streams in the die
B	29	C	48	3363	using a layered die, e.g. stacked discs
B	29	C	48	3366	using a die with concentric parts, e.g. rings, cylinders
B	29	C	48	337	the components merging at a common location
B	29	C	48	338	using a die with concentric parts, e.g. rings, cylinders
B	29	C	48	34	Cross-head annular extrusion nozzles, i.e. for simultaneously receiving moulding material and the preform to be coated
B	29	C	48	345	Extrusion nozzles comprising two or more adjacently arranged ports, for simultaneously extruding multiple strands, e.g. for pelletising
B	29	C	48	35	with rollers
B	29	C	48	355	Conveyors for extruded articles
B	29	C	48	36	Means for plasticising or homogenising the moulding material or forcing it through the nozzle or die
B	29	C	48	361	with the barrel or with a part thereof rotating
B	29	C	48	362	using static mixing devices
B	29	C	48	363	using non-actuated dynamic mixing devices
B	29	C	48	365	using pumps, e.g. piston pumps
B	29	C	48	37	Gear pumps
B	29	C	48	375	Plasticisers, homogenisers or feeders comprising two or more stages
B	29	C	48	38	using two or more serially arranged screws in the same barrel
B	29	C	48	385	using two or more serially arranged screws in separate barrels
B	29	C	48	387	using a screw extruder and a gear pump
B	29	C	48	388	using a screw extruder and a ram or piston
B	29	C	48	39	a first extruder feeding the melt into an intermediate location of a second extruder
B	29	C	48	395	using screws surrounded by a cooperating barrel, e.g. single screw extruders
B	29	C	48	397	using a single screw
B	29	C	48	40	using two or more parallel screws or at least two parallel non-intermeshing screws, e.g. twin screw extruders
B	29	C	48	402	the screws having intermeshing parts
B	29	C	48	404	the screws having non-intermeshing parts
B	29	C	48	405	Intermeshing co-rotating screws
B	29	C	48	41	Intermeshing counter-rotating screws
B	29	C	48	415	and having partially non-intermeshing screws
B	29	C	48	42	Non-identical or non-mirrored screws
B	29	C	48	425	using three or more screws serially arranged screws B29C48/38, B29C48/385
B	29	C	48	43	Ring extruders
B	29	C	48	435	Sub-screws
B	29	C	48	44	Planetary screws
B	29	C	48	445	Coaxially arranged screws, i.e. one within the other
B	29	C	48	45	Axially movable screws
B	29	C	48	455	Screws arranged to convey material towards each other, e.g. separate screws arranged after each other and feeding in opposite directions
B	29	C	48	46	using vanes

B	29	C	48	465	using rollers
B	29	C	48	467	using single rollers, e.g. provided with protrusions, closely surrounded by a housing with movement of the material in the axial direction
B	29	C	48	468	Cavity transfer mixing devices, i.e. a roller and surrounding barrel both provided with cavities; Barrels and rollers therefor
B	29	C	48	47	using discs, e.g. plasticising the moulding material by passing it between a fixed and a rotating disc that are coaxially arranged
B	29	C	48	475	using pistons, accumulators or press rams
B	29	C	48	48	Two or more rams or pistons
B	29	C	48	485	Hydrostatic extrusion
B	29	C	48	49	using two or more extruders to feed one die or nozzle
B	29	C	48	495	Feed-blocks extrusion moulding of multi-component articles B29C48/16
B	29	C	48	50	Details of extruders
B	29	C	48	501	Extruder feed section
B	29	C	48	503	Extruder machines or parts thereof characterised by the material or by their manufacturing process B29C48/256 takes precedence
B	29	C	48	505	Screws
B	29	C	48	507	characterised by the material or their manufacturing process
B	29	C	48	509	Materials, coating or lining therefor
B	29	C	48	51	with internal flow passages, e.g. for molten material
B	29	C	48	515	for auxiliary fluids, e.g. foaming agents
B	29	C	48	52	with an outer diameter varying along the longitudinal axis, e.g. for obtaining different thread clearance
B	29	C	48	525	Conical screws
B	29	C	48	53	having a varying channel depth, e.g. varying the diameter of the longitudinal screw trunk
B	29	C	48	535	with thread pitch varying along the longitudinal axis
B	29	C	48	54	with additional forward-feeding elements
B	29	C	48	55	having reverse-feeding elements
B	29	C	48	56	having grooves or cavities other than the thread or the channel
B	29	C	48	565	having projections other than the thread, e.g. pins
B	29	C	48	57	provided with kneading disc-like elements, e.g. with oval-shaped elements
B	29	C	48	575	provided with elements of a generally circular cross-section for shearing the melt, i.e. shear-ring elements
B	29	C	48	58	provided with seal ring elements, i.e. elements of generally circular and tapered shape for preventing the back flow of the melt
B	29	C	48	585	provided with gears interacting with the flow
B	29	C	48	59	characterised by details of the thread, i.e. the shape of a single thread of the material-feeding screw
B	29	C	48	595	the thread having non-uniform width
B	29	C	48	60	Thread tops
B	29	C	48	605	the thread being discontinuous
B	29	C	48	61	Threads having wavy profiles
B	29	C	48	615	Threads having varying helix angles
B	29	C	48	62	characterised by the shape of the thread channel, e.g. U-shaped
B	29	C	48	625	characterised by the ratio of the threaded length of the screw to its outside diameter [L/D ratio]
B	29	C	48	63	having sections without mixing elements or threads, i.e. having cylinder shaped sections

					Eccentrically rotating screwsScrews revolving around an axis other than their
B	29	C	48	635	central axis
B	29	C	48	64	Screws with two or more threads
B	29	C	48	645	neighbouring threads and channels having identical configurations
					neighbouring threads or channels having different configurations, e.g. one
B	29	C	48	65	thread being lower than its neighbouring thread
B	29	C	48	655	having three or more threads
					Barrier threads, i.e. comprising primary and secondary threads whereby the
B	29	C	48	66	secondary thread provides clearance to the barrel for material movement
					having incorporated mixing devices not provided for in groups B29C48/52 -
B	29	C	48	67	B29C48/66
B	29	C	48	68	Barrels or cylinders
B	29	C	48	6801	characterised by the material or their manufacturing process
B	29	C	48	6803	Materials, coating or lining therefor
B	29	C	48	681	for single screws
B	29	C	48	682	for twin screws
B	29	C	48	683	for more than two screws
					having adaptable feed or discharge locations, e.g. for varying the amount of
B	29	C	48	684	kneading by changing hopper position or discharge exit
					characterised by their inner surfaces, e.g. having grooves, projections or
B	29	C	48	685	threads
B	29	C	48	686	having grooves or cavities
B	29	C	48	687	having projections with a short length in the barrel direction, e.g. pins
B	29	C	48	688	having threads
B	29	C	48	69	Filters or screens for the moulding material
B	29	C	48	691	Arrangements for replacing filters, e.g. with two parallel filters for alternate use
					the filters being fitted on a single rectilinearly reciprocating slide B29C48/692
B	29	C	48	6912	takes precedence
					the filters being fitted on a rotatable or pivotable disc or on the circumference
B	29	C	48	6914	of a rotatable or pivotable cylinder
B	29	C	48	6916	Continuously rotating cylindrical filters
B	29	C	48	692	in the form of webs displaceable for using adjacent areas consecutively
					Substantially flat filters mounted at the end of an extruder screw perpendicular
B	29	C	48	693	to the feed axis
B	29	C	48	694	Cylindrical or conical filters
B	29	C	48	6945	surrounding a rotating screw
B	29	C	48	695	Flow dividers, e.g. breaker plates
B	29	C	48	70	comprising means for dividing, distributing and recombining melt flows
B	29	C	48	705	in the die zone, e.g. to create flow homogeneity
B	29	C	48	71	for layer multiplication extrusion of multi-component articles B29C48/16
					Feedback means, i.e. part of the molten material being fed back into upstream
B	29	C	48	72	stages of the extruder
B	29	C	48	725	for plasticising or homogenising devices
					Bypassing means, i.e. part of the molten material being diverted into
B	29	C	48	74	downstream stages of the extruder
B	29	C	48	745	for plasticising or homogenising devices
B	29	C	48	76	Venting , drying meansDegassing means
B	29	C	48	761	the vented material being in liquid form

B	29	C	48	762	Vapour stripping
B	29	C	48	763	Vent constructions, e.g. venting means avoiding melt escape
B	29	C	48	765	in the extruder apparatus
B	29	C	48	766	in screw extruders
B	29	C	48	767	through a degassing opening of a barrel
B	29	C	48	768	outside the apparatus, e.g. after the die
B	29	C	48	78	Thermal treatment of the extrusion moulding material or of preformed parts or layers, e.g. by heating or cooling
B	29	C	48	79	of preformed parts or layers
B	29	C	48	793	upstream of the plasticising zone, e.g. heating in the hopper
B	29	C	48	797	Cooling
B	29	C	48	80	at the plasticising zone, e.g. by heating cylinders
B	29	C	48	802	Heating
B	29	C	48	82	Cooling B29C48/84 takes precedence
B	29	C	48	83	Heating or cooling the cylinders
B	29	C	48	832	Heating
B	29	C	48	834	Cooling
B	29	C	48	84	by heating or cooling the feeding screws for hollow screws B29C48/515
B	29	C	48	845	Heating
B	29	C	48	85	Cooling
B	29	C	48	86	at the nozzle zone
B	29	C	48	865	Heating
B	29	C	48	87	Cooling
B	29	C	48	872	characterised by differential heating or cooling
B	29	C	48	873	in the direction of the stream of the material
B	29	C	48	875	for achieving a non-uniform temperature distribution, e.g. using barrels having both cooling and heating zones
B	29	C	48	88	Thermal treatment of the stream of extruded material, e.g. cooling
B	29	C	48	885	External treatment, e.g. by using air rings for cooling tubular films
B	29	C	48	89	Internal treatment, e.g. by applying an internal cooling fluid stream
B	29	C	48	90	with calibration or sizing, i.e. combined with fixing or setting of the final dimensions of the extruded article
B	29	C	48	901	of hollow bodies
B	29	C	48	902	internally
B	29	C	48	903	externally
B	29	C	48	904	using dry calibration, i.e. no quenching tank, e.g. with water spray for cooling or lubrication
B	29	C	48	905	using wet calibration, i.e. in a quenching tank
B	29	C	48	906	using roller calibration
B	29	C	48	907	using adjustable calibrators, e.g. the dimensions of the calibrator being changeable
B	29	C	48	908	characterised by calibrator surface, e.g. structure or holes for lubrication, cooling or venting
B	29	C	48	91	Heating, e.g. for cross linking
B	29	C	48	9105	of hollow articles
B	29	C	48	911	Cooling
B	29	C	48	9115	of hollow articles
B	29	C	48	912	of tubular films
B	29	C	48	9125	internally
B	29	C	48	913	externally

B	29	C	48	9135	of flat articles, e.g. using specially adapted supporting means
B	29	C	48	914	cooling drums
B	29	C	48	9145	Endless cooling belts
B	29	C	48	915	with means for improving the adhesion to the supporting means
B	29	C	48	9155	Pressure rollers
B	29	C	48	916	using vacuum
B	29	C	48	9165	Electrostatic pinning
B	29	C	48	917	by applying pressurised gas to the surface of the flat article
B	29	C	48	9175	by interposing a fluid layer between the supporting means and the flat article
B	29	C	48	918	characterized by differential heating or cooling
B	29	C	48	9185	in the direction of the stream of the material
B	29	C	48	919	using a bath, e.g. extruding into an open bath to coagulate or cool the material
B	29	C	48	92	Measuring, controlling or regulating
B	29	C	48	94	Lubricating
B	29	C	48	95	by adding lubricant to the moulding material
B	29	C	48	96	Safety devices
B	29	C	48	965	Personnel safety, e.g. safety for the operator
B	31	B	50	592	using punches or dies
B	31	B	50	594	Modifying the shape of tubular boxes or of paper bottle necks
B	31	F	2201	0754	The tools being other than rollers, e.g. belts or plates
B	32	B	7	022	Mechanical properties
B	32	B	7	023	Optical properties
B	32	B	7	025	Electric or magnetic properties
B	32	B	7	027	Thermal properties
B	32	B	7	028	Heat-shrinkability
B	32	B	7	03	with respect to the orientation of features direction of fibres or filaments B32B5/12
B	32	B	7	035	using arrangements of stretched films, e.g. of mono-axially stretched films arranged alternately
B	32	B	7	05	the layers not being connected over the whole surface, e.g. discontinuous connection or patterned connection using interposed adhesives or bonding materials applied in spaced arrangements B32B7/14
B	32	B	7	09	by stitching, needling or sewing by needling fibrous layers B32B5/06
B	60	L	50	00	Electric propulsion with power supplied within the vehicle with power supply from force of nature, e.g. sun or wind, B60L8/00; for monorail vehicles, suspension vehicles or rack railways B60L13/00
B	60	L	50	10	using propulsion power supplied by engine-driven generators, e.g. generators driven by combustion engines
B	60	L	50	11	using DC generators and DC motors
B	60	L	50	12	using AC generators and DC motors
B	60	L	50	13	using AC generators and AC motors
B	60	L	50	14	using DC generators and AC motors
B	60	L	50	15	with additional electric power supply with capacitors charged by engine-driven generators B60L50/40; with batteries charged by engine-driven generators B60L50/61
B	60	L	50	16	with provision for separate direct mechanical propulsion
B	60	L	50	20	using propulsion power generated by humans or animals
B	60	L	50	30	using propulsion power stored mechanically, e.g. in fly-wheels

B	60	L	50	40	using propulsion power supplied by capacitors
B	60	L	50	50	using propulsion power supplied by batteries or fuel cells
B	60	L	50	51	characterised by AC-motors
B	60	L	50	52	characterised by DC-motors
B	60	L	50	53	in combination with an external power supply, e.g. from overhead contact lines
B	60	L	50	60	using power supplied by batteries in combination with fuel cells B60L50/75
B	60	L	50	61	by batteries charged by engine-driven generators, e.g. series hybrid electric vehicles
B	60	L	50	62	charged by low-power generators primarily intended to support the batteries, e.g. range extenders
B	60	L	50	64	Constructional details of batteries specially adapted for electric vehicles
B	60	L	50	66	Arrangements of batteries
B	60	L	50	70	using power supplied by fuel cells in combination with batteries B60L50/75
B	60	L	50	71	Arrangement of fuel cells within vehicles specially adapted for electric vehicles
B	60	L	50	72	Constructional details of fuel cells specially adapted for electric vehicles
B	60	L	50	75	using propulsion power supplied by both fuel cells and batteries
B	60	L	50	90	using propulsion power supplied by specific means not covered by groups B60L50/10 - B60L50/50, e.g. by direct conversion of thermal nuclear energy into electricity
B	60	L	53	00	Methods of charging batteries, specially adapted for electric vehiclesCharging stations or on-board charging equipment thereforExchange of energy storage elements in electric vehicles
B	60	L	53	10	characterised by the energy transfer between the charging station and the vehicle
B	60	L	53	11	DC charging controlled by the charging station, e.g. mode 4
B	60	L	53	12	Inductive energy transfer
B	60	L	53	122	Circuits or methods for driving the primary coil, e.g. supplying electric power to the coil
B	60	L	53	124	Detection or removal of foreign bodies
B	60	L	53	126	Methods for pairing a vehicle and a charging station, e.g. establishing a one-to-one relation between a wireless power transmitter and a wireless power receiver
B	60	L	53	14	Conductive energy transfer
B	60	L	53	16	Connectors, e.g. plugs or sockets, specially adapted for charging electric vehicles
B	60	L	53	18	Cables specially adapted for charging electric vehicles
B	60	L	53	20	characterised by converters located in the vehicle
B	60	L	53	22	Constructional details or arrangements of charging converters specially adapted for charging electric vehicles
B	60	L	53	24	Using the vehicle's propulsion converter for charging
B	60	L	53	30	Constructional details of charging stations
B	60	L	53	302	Cooling of charging equipment
B	60	L	53	305	Communication interfaces
B	60	L	53	31	Charging columns specially adapted for electric vehicles
B	60	L	53	32	by charging in short intervals along the itinerary, e.g. during short stops

B	60	L	53	34	Plug-like or socket-like devices specially adapted for contactless inductive charging of electric vehicles positioning means for charging devices using inductive energy transfer B60L53/38
B	60	L	53	35	Means for automatically adjusting the relative position of charging devices and vehicles
B	60	L	53	36	by positioning the vehicle
B	60	L	53	37	using optical position determination, e.g. using cameras
B	60	L	53	38	specially adapted for charging by inductive energy transfer
B	60	L	53	39	with position-responsive activation of primary coils
B	60	L	53	50	Charging stations characterised by energy-storage or power-generation means
B	60	L	53	51	Photovoltaic means
B	60	L	53	52	Wind-driven generators
B	60	L	53	53	Batteries
B	60	L	53	54	Fuel cells
B	60	L	53	55	Capacitors
B	60	L	53	56	Mechanical storage means, e.g. fly wheels
B	60	L	53	57	Charging stations without connection to power networks
B	60	L	53	60	Monitoring or controlling charging stations
B	60	L	53	62	in response to charging parameters, e.g. current, voltage or electrical charge
B	60	L	53	63	in response to network capacity
B	60	L	53	64	Optimising energy costs, e.g. responding to electricity rates
B	60	L	53	65	involving identification of vehicles
B	60	L	53	66	Data transfer between charging stations and vehicles
B	60	L	53	665	Methods related to measuring, billing or payment
B	60	L	53	67	Controlling two or more charging stations
B	60	L	53	68	Off-site monitoring or control, e.g. remote control
B	60	L	53	80	Exchanging energy storage elements, e.g. removable batteries
B	60	L	55	00	Arrangements for supplying energy stored within a vehicle to a power network, i.e. vehicle-to-grid [V2G] arrangements
B	60	L	58	00	Methods or circuit arrangements for monitoring or controlling batteries or fuel cells, specially adapted for electric vehicles
B	60	L	58	10	for monitoring or controlling batteries
B	60	L	58	12	responding to state of charge [SoC]
B	60	L	58	13	Maintaining the SoC within a determined range
B	60	L	58	14	Preventing excessive discharging
B	60	L	58	15	Preventing overcharging
B	60	L	58	16	responding to battery ageing, e.g. to the number of charging cycles or the state of health [SoH]
B	60	L	58	18	of two or more battery modules
B	60	L	58	19	Switching between serial connection and parallel connection of battery modules
B	60	L	58	20	having different nominal voltages
B	60	L	58	21	having the same nominal voltage
B	60	L	58	22	Balancing the charge of battery modules
B	60	L	58	24	for controlling the temperature of batteries
B	60	L	58	25	by controlling the electric load
B	60	L	58	26	by cooling
B	60	L	58	27	by heating

B	60	L	58	30	for monitoring or controlling fuel cells
B	60	L	58	31	for starting of fuel cells
B	60	L	58	32	for controlling the temperature of fuel cells, e.g. by controlling the electric load
B	60	L	58	33	by cooling
B	60	L	58	34	by heating
B	60	L	58	40	for controlling a combination of batteries and fuel cells
B	65	D	90	507	under pressure or vacuum
B	65	D	90	51	characterised by sensors
B	65	D	90	511	Float-type indicators
B	65	D	90	513	comprising electrically conductive layers in walls
C	02	F	11	13	by heating
C	02	F	11	131	using electromagnetic or ultrasonic waves
C	02	F	11	143	using inorganic substances C02F11/148 takes precedence
C	02	F	11	145	using calcium compounds
C	02	F	11	147	using organic substances C02F11/148 takes precedence
C	02	F	11	148	Combined use of inorganic and organic substances, being added in the same treatment step
C	02	F	11	15	By treatment with electric, magnetic or electromagnetic fieldsby treatment with ultrasonic waves for the purpose of heating C02F11/131
C	12	G	1	14	Preparation of wine or sparkling wine with low alcohol content methods for reducing the alcohol content after fermentation C12H3/00
C	12	G	3	021	of botanical family Poaceae, e.g. wheat, millet, sorghum, barley, rye, or corn
C	12	G	3	022	of botanical genus Oryza, e.g. rice
C	12	G	3	023	of botanical family Solanaceae, e.g. potato
C	12	G	3	024	of fruits other than botanical genus Vitis
C	12	G	3	026	with health-improving ingredients, e.g. flavonoids, flavones, polyphenols or polysaccharides, added before or during the fermentation stagewith flavouring ingredients added before or during the fermentation stage
C	12	G	3	05	with health-improving ingredients, e.g. flavonoids, flavones, polyphenols or polysaccharides
C	12	G	3	055	extracted from plants
C	12	G	3	07	Flavouring with wood extracts, e.g. generated by contact with woodWood pretreatment therefor
C	12	H	3	00	Methods for reducing the alcohol content of fermented solutions or alcoholic beverage to obtain low alcohol or non-alcoholic beverages
C	12	H	3	02	by evaporating
C	12	H	3	04	using semi-permeable membranes
C	12	H	6	00	Methods for increasing the alcohol content of fermented solutions or alcoholic beverages
C	12	H	6	02	by distillation
C	12	H	6	04	by freezing
C	21	B	2400	00	Treatment of slags originating from iron or steel processes
C	21	B	2400	02	Physical or chemical treatment of slags
C	21	B	2400	022	Methods of cooling or quenching molten slag
C	21	B	2400	024	with the direct use of steam or liquid coolants, e.g. water
C	21	B	2400	026	using air, inert gases or removable conductive bodies
C	21	B	2400	028	with the permanent addition of cooled slag or other solids
C	21	B	2400	03	Removing sulfur

C	21	B	2400	032	Separating slag from liquid, e.g. from water, after quenching
C	21	B	2400	034	Stirring or agitating by pressurised fluids or by moving apparatus
C	21	B	2400	04	Specific shape of slag after cooling
C	21	B	2400	042	Sheets
C	21	B	2400	044	Briquettes or moulded bodies other than sheets
C	21	B	2400	05	Apparatus features
C	21	B	2400	052	including rotating parts
C	21	B	2400	054	Disc-shaped or conical parts for cooling, dispersing or atomising of molten slag rotating along vertical axis
C	21	B	2400	056	Drums whereby slag is poured on or in between
C	21	B	2400	058	Rotating beds on which slag is cooled
C	21	B	2400	06	Conveyors on which slag is cooled
C	21	B	2400	062	Jet nozzles or pressurised fluids for cooling, fragmenting or atomising slag
C	21	B	2400	064	Thermally-conductive removable bodies, e.g. balls
C	21	B	2400	066	Receptacle features where the slag is treated
C	21	B	2400	068	with a sealed or controlled environment
C	21	B	2400	07	open to atmosphere
C	21	B	2400	072	Tanks to collect the slag, e.g. water tank
C	21	B	2400	074	Tower structures for cooling, being confined but not sealed
C	21	B	2400	076	Fluidised bed for cooling
C	21	B	2400	08	with energy recovery
C	21	B	7	205	Details concerning the gear-box driving the charge distribution system
F	02	M	37	24	characterised by water separating means
F	02	M	37	26	with water detection means
F	02	M	37	28	with means activated by the presence of water, e.g. alarms or means for automatic drainage
F	02	M	37	30	characterised by heating means
F	02	M	37	32	characterised by filters or filter arrangements
F	02	M	37	34	by the filter structure, e.g. honeycomb, mesh or fibrous
F	02	M	37	36	with bypass means
F	02	M	37	38	with regeneration means
F	02	M	37	40	with means for detection of clogging
F	02	M	37	42	Installation or removal of filters
F	02	M	37	44	Filters structurally associated with pumps
F	02	M	37	46	Filters structurally associated with pressure regulators
F	02	M	37	48	Filters structurally associated with fuel valves
F	02	M	37	50	Filters arranged in or on fuel tanks
F	02	M	37	52	using magnetic means
F	02	M	37	54	characterised by air purging means having priming pumps F02M37/16
F	02	M	51	08	specially for low-pressure fuel-injection
F	02	M	7	23	Fuel aerating devices
F	15	B	21	0423	Cooling
F	15	B	21	0427	Heating
F	16	B	2200	00	Constructional details of connections not covered for in other groups of this subclass
F	16	B	2200	10	Details of socket shapes
F	16	B	2200	20	Connections with hook-like parts gripping behind a blind side of an element to be connected
F	16	B	2200	205	the hook being a separate retainer

F	16	B	2200	30	Dovetail-like connections
F	16	B	2200	40	Clamping arrangements where clamping parts are received in recesses of elements to be connected
F	16	B	2200	403	Threaded clamping parts
F	16	B	2200	406	Clamping parts being collars, bushings or wedges
F	16	B	2200	50	Flanged connections
F	16	B	2200	503	the flange being separate from the elements to be connected
F	16	B	2200	506	bolted or riveted
F	16	B	2200	509	clamped
F	16	B	9	01	Welded or bonded connections
F	16	B	9	05	by way of an intermediate member
F	16	B	9	052	the intermediate member having a radial flange secured to the flat surface
F	16	B	9	054	the intermediate member being threaded
F	16	B	9	056	the intermediate member extending through the flat surface; the rod or tubular part extending through the flat surface
F	16	B	9	058	the intermediate member being secured to the rod by transverse fasteners
F	16	B	9	07	involving plastic or elastic deformation when assembling involving plastic deformation with a part of or on one member entering a hole in the other F16B17/006
F	16	B	9	09	rods and flat surfaces interengaging by projections and mating sockets
F	24	F	1	00073	comprising a compressor in the indoor unit housing
F	24	F	1	00075	receiving air from a central station
F	24	F	1	00077	receiving heat exchange fluid entering and leaving the unit as a liquid
F	24	F	1	0035	characterised by introduction of outside air to the room
F	24	F	1	0038	in combination with simultaneous exhaustion of inside air
F	24	F	1	0041	characterised by exhaustion of inside air from the room in combination with simultaneous introduction of outside air F24F1/0038
F	24	F	1	0043	characterised by mounting arrangements
F	24	F	1	0047	mounted in the ceiling or at the ceiling
F	24	F	1	005	mounted on the floorstanding on the floor
F	24	F	1	0053	mounted at least partially below the floorwith air distribution below the floor
F	24	F	1	0057	mounted in or on a wall
F	24	F	1	0063	by the mounting or arrangement of the heat exchangers
F	24	F	1	0067	by the shape of the heat exchangers or of parts thereof, e.g. of their fins
F	24	F	1	0068	characterised by the arrangement of refrigerant piping outside the heat exchanger within the unit casing
F	24	F	1	0071	with means for purifying supplied air perfuming or deodorising means F24F1/008
F	24	F	1	0073	characterised by the mounting or arrangement of filters
F	24	F	1	0076	by electric means, e.g. ionisers or electrostatic separators
F	24	F	1	008	with perfuming or deodorising means
F	24	F	1	0083	with dehumidification means
F	24	F	1	0087	with humidification means
F	24	F	1	009	characterised by heating arrangements characterised by heat exchangers F24F1/0059
F	24	F	1	0093	with additional radiant heat-discharging elements, e.g. electric heaters
F	24	F	1	0097	using thermoelectric or thermomagnetic means, e.g. Peltier elements

					characterised by air supply means, e.g. fan casings, internal dampers or ducts
F	24	F	1	028	with secondary air induced by injector action of the primary air F24F1/01
F	24	F	1	0284	with horizontally arranged fan axis
F	24	F	1	0287	with vertically arranged fan axis
F	24	F	1	029	characterised by the layout or mutual arrangement of components, e.g. of compressors or fans
F	24	F	1	03	characterised by mounting arrangements
F	24	F	1	031	penetrating a wall or window
F	24	F	1	0314	mounted on a wall
F	24	F	1	0317	suspended from the ceiling
F	24	F	1	032	characterised by heat exchangers
F	24	F	1	0323	by the mounting or arrangement of the heat exchangers
F	24	F	1	0325	by the shape of the heat exchangers or of parts thereof, e.g. of their fins
F	24	F	1	0326	characterised by the arrangement of refrigerant piping outside the heat exchanger within the unit casing
F	24	F	1	0328	with means for purifying supplied air perfuming or deodorising means F24F1/0355
F	24	F	1	035	characterised by the mounting or arrangement of filters
F	24	F	1	0353	by electric means, e.g. ionisers or electrostatic separators
F	24	F	1	0355	with perfuming or deodorising means
F	24	F	1	0358	with dehumidification means
F	24	F	1	037	with humidification means
F	24	F	1	0373	characterised by heating arrangements characterised by heat exchangers F24F1/032
F	24	F	1	0375	with additional radiant heat-discharging elements, e.g. electric heaters
F	24	F	1	0378	using thermoelectric or thermomagnetic means, e.g. Peltier elements
F	24	F	1	039	using water to enhance cooling, e.g. spraying onto condensers
F	24	S	-	-	SOLAR HEAT COLLECTORSSOLAR HEAT SYSTEMS for producing mechanical power from solar energy F03G6/00
F	24	S	10	00	Solar heat collectors using working fluids
F	24	S	10	10	the working fluids forming pools or ponds
F	24	S	10	13	Salt-gradient ponds
F	24	S	10	17	using covers or floating solar absorbing elements
F	24	S	10	20	having circuits for two or more working fluids with means for exchanging heat between two or more fluids F24S10/30
F	24	S	10	25	having two or more passages for the same working fluid layered in direction of solar-rays, e.g. having upper circulation channels connected with lower circulation channels
F	24	S	10	30	with means for exchanging heat between two or more working fluids
F	24	S	10	40	in absorbing elements surrounded by transparent enclosures, e.g. evacuated solar collectors
F	24	S	10	45	the enclosure being cylindrical
F	24	S	10	50	the working fluids being conveyed between plates
F	24	S	10	501	having conduits of plastic material
F	24	S	10	502	having conduits formed by paired plates and internal partition means
F	24	S	10	503	having conduits formed by paired plates, only one of which is plane
F	24	S	10	504	having conduits formed by paired non-plane plates
F	24	S	10	505	having curved plate-like conduits, e.g. semi-spherical
F	24	S	10	506	having conduits formed by inflation of portions of a pair of joined sheets

					with enlarged surfaces, e.g. with protrusions or corrugations collectors comprising porous materials or permeable masses directly contacting the
F	24	S	10	55	working fluids F24S10/80
F	24	S	10	60	the working fluids trickling freely over absorbing elements
F	24	S	10	70	the working fluids being conveyed through tubular absorbing conduits
F	24	S	10	72	the tubular conduits being integrated in a block; the tubular conduits touching each other
F	24	S	10	73	the tubular conduits being of plastic material
F	24	S	10	74	the tubular conduits are not fixed to heat absorbing plates and are not touching each other
F	24	S	10	742	the conduits being parallel to each other
F	24	S	10	744	the conduits being helically coiled
F	24	S	10	746	the conduits being spirally coiled
F	24	S	10	748	the conduits being otherwise bent, e.g. zig-zag
					with enlarged surfaces, e.g. with protrusions or corrugations collectors comprising porous material or permeable masses directly contacting the
F	24	S	10	75	working fluids F24S10/80
F	24	S	10	753	the conduits being parallel to each other
F	24	S	10	754	the conduits being spirally coiled
F	24	S	10	755	the conduits being otherwise bent, e.g. zig-zag
					comprising porous material or permeable masses directly contacting the working fluids for conveying liquefied working fluid from evaporator sections to
F	24	S	10	80	condenser sections with capillary force F24S10/95
F	24	S	10	90	using internal thermosiphonic circulation
F	24	S	10	95	having evaporator sections and condenser sections, e.g. heat pipes
F	24	S	20	00	Solar heat collectors specially adapted for particular uses or environments
F	24	S	20	02	for swimming pools
F	24	S	20	04	for showers
F	24	S	20	20	Solar heat collectors for receiving concentrated solar energy, e.g. receivers for solar power plants
F	24	S	20	25	using direct solar radiation in combination with concentrated radiation
F	24	S	20	30	Solar heat collectors for heating objects, e.g. solar cookers or solar furnaces
F	24	S	20	40	Solar heat collectors combined with other heat sources, e.g. using electrical heating or heat from ambient air
F	24	S	20	50	Rollable or foldable solar heat collector modules
F	24	S	20	55	made of flexible materials
F	24	S	20	60	Solar heat collectors integrated in fixed constructions, e.g. in buildings
F	24	S	20	61	Passive solar heat collectors, e.g. operated without external energy source
F	24	S	20	62	in the form of fences, balustrades or handrails
F	24	S	20	63	in the form of windows
F	24	S	20	64	in the form of floor constructions, grounds or roads
F	24	S	20	66	in the form of facade constructions, e.g. wall constructions in the form of shingles or tiles F24S20/69
F	24	S	20	67	in the form of roof constructions in the form of shingles or tiles F24S20/69
F	24	S	20	69	in the form of shingles or tiles
F	24	S	20	70	Waterborne solar heat collector modules for working fluids forming pools or ponds F24S10/10
F	24	S	20	80	Airborne solar heat collector modules, e.g. inflatable structures

F	24	S	2010	71	the conduits having a non-circular cross-section
F	24	S	2010	751	Special fins
F	24	S	2010	752	extending obliquely
F	24	S	2020	10	Solar modules layout; Modular arrangements
F	24	S	2020	11	in the form of multiple rows and multiple columns, all solar modules being coplanar
F	24	S	2020	12	Coplanar arrangements with frame overlapping portions
F	24	S	2020	13	Overlaying arrangements similar to roof tiles
F	24	S	2020	14	Stepped arrangements, e.g. in parallel planes, without module overlapping
F	24	S	2020	15	Non-parallel arrangements
F	24	S	2020	16	Preventing shading effects
F	24	S	2020	17	Arrangements of solar thermal modules combined with solar PV modules
F	24	S	2020	18	having a particular shape, e.g. prismatic, pyramidal
F	24	S	2020	183	in the form of louvers
F	24	S	2020	186	allowing change of position for optimization of heat collection
F	24	S	2020	23	movable or adjustable
F	24	S	2023	83	Other shapes
F	24	S	2023	831	corrugated
F	24	S	2023	832	curved
F	24	S	2023	833	dish-shaped
F	24	S	2023	834	trough-shaped
F	24	S	2023	835	asymmetric
F	24	S	2023	836	spiral
F	24	S	2023	837	hyperbolic
F	24	S	2023	838	involutes
F	24	S	2023	84	Reflective elements inside solar collector casings
F	24	S	2023	85	Micro-reflectors
F	24	S	2023	86	in the form of reflective coatings
F	24	S	2023	87	Reflectors layout
F	24	S	2023	872	Assemblies of spaced reflective elements on common support, e.g. Fresnel reflectors
F	24	S	2023	874	Reflectors formed by assemblies of adjacent similar reflective facets
F	24	S	2023	876	Reflectors formed by assemblies of adjacent reflective elements having different orientation or different features
F	24	S	2023	878	Assemblies of spaced reflective elements in the form of grids, e.g. vertical or inclined reflective elements extending over heat absorbing elements
F	24	S	2023	88	Multi reflective traps
F	24	S	2025	01	Special support components; Methods of use
F	24	S	2025	011	Arrangements for mounting elements inside solar collectors; Spacers inside solar collectors
F	24	S	2025	012	Foldable support elements
F	24	S	2025	013	Stackable support elements
F	24	S	2025	014	Methods for installing support elements
F	24	S	2025	015	Supports with play between elements
F	24	S	2025	016	Filling or spacing means; Elastic means
F	24	S	2025	017	Tensioning means
F	24	S	2025	018	Means for preventing movements, e.g. stops
F	24	S	2025	019	Means for accommodating irregularities on mounting surface; Tolerance compensation means
F	24	S	2025	02	Ballasting means

F	24	S	2025	021	Sealing means between support elements and mounting surface
F	24	S	2025	022	Sealing means between support elements, e.g. overlapping arrangements; Gap closing arrangements
F	24	S	2025	023	Means for preventing theft; Locking means
F	24	S	2025	6001	by using hook and loop-type fasteners
F	24	S	2025	6002	by using hooks
F	24	S	2025	6003	by clamping
F	24	S	2025	6004	by clipping, e.g. by using snap connectors
F	24	S	2025	6005	by screwed connection
F	24	S	2025	6006	by using threaded elements, e.g. stud bolts
F	24	S	2025	6007	by using form-fitting connection means, e.g. tongue and groove
F	24	S	2025	6008	by using toothed elements
F	24	S	2025	6009	by deforming the material, e.g. by crimping or clinching
F	24	S	2025	601	by bonding, e.g. by using adhesives
F	24	S	2025	6011	by welding or brazing
F	24	S	2025	6012	Joining different materials
F	24	S	2025	6013	Joining glass with non-glass elements
F	24	S	2025	80	Special profiles
F	24	S	2025	801	having hollow parts with closed cross-section
F	24	S	2025	802	having circular or oval cross-section
F	24	S	2025	803	having a central web, e.g. I-shaped, inverted T- shaped
F	24	S	2025	804	U-, C- or O-shaped; Hat profiles
F	24	S	2025	805	in the form of corrugated profiles
F	24	S	2025	806	having curved portions
F	24	S	2025	807	having undercut grooves
F	24	S	2030	10	Special components
F	24	S	2030	11	Driving means
F	24	S	2030	115	Linear actuators, e.g. pneumatic cylinders
F	24	S	2030	12	Coupling means
F	24	S	2030	13	Transmissions
F	24	S	2030	131	in the form of articulated bars
F	24	S	2030	132	in the form of compasses, scissors or parallelograms
F	24	S	2030	133	in the form of flexible elements, e.g. belts, chains, ropes
F	24	S	2030	134	in the form of gearings or rack-and-pinion transmissions
F	24	S	2030	135	in the form of threaded elements
F	24	S	2030	136	for moving several solar collectors by common transmission elements
F	24	S	2030	137	for deriving one movement from another one, e.g. for deriving elevation movement from azimuth movement
F	24	S	2030	14	Movement guiding means
F	24	S	2030	145	Tracks
F	24	S	2030	15	Bearings
F	24	S	2030	16	Hinged elements; Pin connections
F	24	S	2030	17	Spherical joints
F	24	S	2030	18	Load balancing means, e.g. use of counter-weights
F	24	S	2030	19	Movement dampening means; Braking means
F	24	S	2050	25	Calibration means; Methods for initial positioning of solar concentrators or solar receivers
F	24	S	2070	62	Heat traps
F	24	S	2080	01	Selection of particular materials
F	24	S	2080	011	Ceramics

F	24	S	2080	012	Concrete
F	24	S	2080	013	Foams
F	24	S	2080	014	Carbone, e.g. graphite
F	24	S	2080	015	Plastics
F	24	S	2080	016	Textiles; Fabrics
F	24	S	2080	017	Natural materials, e.g. wood
F	24	S	2080	018	Recycled materials
F	24	S	2080	03	Arrangements for heat transfer optimization
F	24	S	2080	05	Flow guiding means; Inserts inside conduits
F	24	S	2080	07	Arrangements for one-way heat transfer, e.g. thermal diodes
F	24	S	2080	09	Arrangements for reinforcement of solar collector elements
F	24	S	2080	501	Special shape
F	24	S	2080	502	in the form of multiple covering elements
F	24	S	2080	503	in the form of curved covering elements
F	24	S	21	00	Solar heat collectors not provided for in groups F24S10/00-F24S20/00
F	24	S	2201	00	PredictionSimulation
F	24	S	23	00	Arrangements for concentrating solar-rays for solar heat collectors
F	24	S	23	10	Prisms
F	24	S	23	11	Fluorescent material
F	24	S	23	12	Light guides
F	24	S	23	30	with lenses
F	24	S	23	31	having discontinuous faces, e.g. Fresnel lenses
F	24	S	23	70	with reflectors
F	24	S	23	71	with parabolic reflective surfaces with cylindro-parabolic reflective surfaces F24S23/74
F	24	S	23	715	flexible
F	24	S	23	72	with hemispherical reflective surfaces
F	24	S	23	74	with trough-shaped or cylindro-parabolic reflective surfaces
F	24	S	23	745	flexible
F	24	S	23	75	with conical reflective surfaces
F	24	S	23	77	with flat reflective plates
F	24	S	23	79	with spaced and opposed interacting reflective surfaces
F	24	S	23	80	having discontinuous faces
F	24	S	23	81	flexible F24S23/715, F24S23/745 take precedence
F	24	S	23	82	characterised by the material or the construction of the reflector
F	24	S	25	00	Arrangement of stationary mountings or supports for solar heat collector modules
F	24	S	25	10	extending in directions away from a supporting surface
F	24	S	25	11	using shaped bodies, e.g. concrete elements, foamed elements or moulded box-like elements
F	24	S	25	12	using posts in combination with upper profiles
F	24	S	25	13	Profile arrangements, e.g. trusses F24S25/12 takes precedence
F	24	S	25	15	using bent platesusing assemblies of plates
F	24	S	25	16	Arrangement of interconnected standing structuresStanding structures having separate supporting portions for adjacent modules
F	24	S	25	20	Peripheral frames for modules
F	24	S	25	30	using elongate rigid mounting elements extending substantially along the supporting surface, e.g. for covering buildings with solar heat collectors extending in directions away from the supporting surface F24S25/10; peripheral frames for modules F24S25/20

F	24	S	25	33	forming substantially planar assemblies, e.g. of coplanar or stacked profiles by means of profiles with a cross-section defining separate supporting portions
F	24	S	25	35	for adjacent modules
F	24	S	25	37	forming coplanar grids comprising longitudinal and transversal profiles using plate-like mounting elements, e.g. profiled or corrugated platesPlate-like module frames extending in directions away from a supporting surface
F	24	S	25	40	F24S25/10
F	24	S	25	50	comprising elongate non-rigid elements, e.g. straps, wires or ropes
F	24	S	25	60	Fixation means, e.g. fasteners, specially adapted for supporting solar heat collector modules
F	24	S	25	61	for fixing to the ground or to building structures
F	24	S	25	613	in the form of bent strips or assemblies of stripsHook-like connectorsConnectors to be mounted between building-covering elements
F	24	S	25	615	for fixing to protruding parts of buildings, e.g. to corrugations or to standing seams
F	24	S	25	617	Elements driven into the ground, e.g. anchor-pilesFoundations for supporting elementsConnectors for connecting supporting structures to the ground or to flat horizontal surfaces
F	24	S	25	63	for fixing modules or their peripheral frames to supporting elements
F	24	S	25	632	Side connectorsBase connectors
F	24	S	25	634	ClampsClips
F	24	S	25	636	clamping by screw-threaded elements
F	24	S	25	65	for coupling adjacent supporting elements, e.g. for connecting profiles together
F	24	S	25	67	for coupling adjacent modules or their peripheral frames for fixing modules or their peripheral frames to supporting elements F24S25/63
F	24	S	25	70	with means for adjusting the final position or orientation of supporting elements in relation to each other or to a mounting surfacewith means for compensating mounting tolerances
F	24	S	30	00	Arrangements for moving or orienting solar heat collector modules
F	24	S	30	20	for linear movement
F	24	S	30	40	for rotary movement
F	24	S	30	42	with only one rotation axis
F	24	S	30	422	Vertical axis
F	24	S	30	425	Horizontal axis
F	24	S	30	428	with inclined axis
F	24	S	30	45	with two rotation axes
F	24	S	30	452	Vertical primary axis
F	24	S	30	455	Horizontal primary axis
F	24	S	30	458	with inclined primary axis
F	24	S	30	48	with three or more rotation axes or with multiple degrees of freedom
F	24	S	40	00	Safety or protection arrangements of solar heat collectorsPreventing malfunction of solar heat collectors control arrangements F24S50/00
F	24	S	40	10	Protective covers or shroudsClosure members, e.g. lids transparent coverings F24S80/50
F	24	S	40	20	CleaningRemoving snow
F	24	S	40	40	Preventing corrosionProtecting against dirt or contamination
F	24	S	40	42	Preventing condensation inside solar modules by venting F24S40/53
F	24	S	40	44	Draining rainwater or condensation

F	24	S	40	46	Maintaining vacuum, e.g. by using getters
F	24	S	40	48	Deaerating or degassing the working fluid
F	24	S	40	50	Preventing overheating or overpressure by draining the working fluid F24S40/60
F	24	S	40	52	by modifying the heat collection, e.g. by defocusing or by changing the position of heat-receiving elements
F	24	S	40	53	by venting solar heat collector enclosures
F	24	S	40	55	Arrangements for cooling, e.g. by using external heat dissipating means or internal cooling circuits by venting F24S40/53
F	24	S	40	57	Preventing overpressure in solar collector enclosures by venting F24S40/53
F	24	S	40	58	Preventing overpressure in working fluid circuits
F	24	S	40	60	Arrangements for draining the working fluid
F	24	S	40	70	Preventing freezing arrangements for draining the working fluid F24S40/60
F	24	S	40	80	Accommodating differential expansion of solar collector elements
F	24	S	40	85	Arrangements for protecting solar collectors against adverse weather conditions F24S40/10 takes precedence
F	24	S	40	90	Arrangements for testing solar heat collectors
F	24	S	50	00	Arrangements for controlling solar heat collectors
F	24	S	50	20	for tracking
F	24	S	50	40	responsive to temperature
F	24	S	50	60	responsive to wind
F	24	S	50	80	for controlling collection or absorption of solar radiation
F	24	S	60	00	Arrangements for storing heat collected by solar heat collectors working fluids forming pools or ponds F24S10/10
F	24	S	60	10	using latent heat
F	24	S	60	20	using chemical reactions, e.g. thermochemical reactions or isomerisation reactions
F	24	S	60	30	storing heat in liquids
F	24	S	70	00	Details of absorbing elements
F	24	S	70	10	characterised by the absorbing material absorbing coatings or surface treatment for increasing absorption F24S70/20
F	24	S	70	12	made of metallic material
F	24	S	70	14	made of plastics
F	24	S	70	16	made of ceramicmade of concretemade of natural stone
F	24	S	70	20	characterised by absorbing coatingscharacterised by surface treatment for increasing absorption
F	24	S	70	225	for spectrally selective absorption
F	24	S	70	25	Coatings made of metallic material
F	24	S	70	275	Coatings made of plastics
F	24	S	70	30	Auxiliary coatings, e.g. anti-reflective coatings
F	24	S	70	60	characterised by the structure or construction absorbing coatings or surface treatment for increasing absorption F24S70/20; auxiliary coatings F24S70/30
F	24	S	70	65	Combinations of two or more absorbing elements
F	24	S	80	00	Details, accessories or component parts of solar heat collectors not provided for in groups F24S10/00-F24S70/00
F	24	S	80	10	Materials for heat-exchange conduits
F	24	S	80	20	Working fluids specially adapted for solar heat collectors

					Arrangements for connecting the fluid circuits of solar collectors with each other or with other components, e.g. pipe connectionsFluid distributing means,
F	24	S	80	30	e.g. headers
F	24	S	80	40	Casings
F	24	S	80	45	characterised by the material
F	24	S	80	453	made of metallic material
F	24	S	80	457	made of plastics
					Elements for transmitting incoming solar rays and preventing outgoing heat
F	24	S	80	50	radiationTransparent coverings
F	24	S	80	52	characterised by the material for preventing heat loss F24S80/56
F	24	S	80	525	made of plastics
F	24	S	80	54	using evacuated elements
F	24	S	80	56	characterised by means for preventing heat loss
F	24	S	80	58	characterised by their mountings or fixing means
F	24	S	80	60	Thermal insulation transparent coverings F24S80/50
F	24	S	80	65	characterised by the material
F	24	S	80	70	Sealing means
F	24	S	90	00	Solar heat systems not otherwise provided for
F	24	S	90	10	using thermosiphonic circulation
F	24	T	-	-	GEOTHERMAL COLLECTORSGEOTHERMAL SYSTEMS
F	24	T	10	00	Geothermal collectors
					with circulation of working fluids through underground channels, the working
F	24	T	10	10	fluids not coming into direct contact with the ground
					using tube assemblies suitable for insertion into boreholes in the ground, e.g.
F	24	T	10	13	geothermal probes
					using bent tubesusing tubes assembled with connectors or with return
F	24	T	10	15	headers
F	24	T	10	17	using tubes closed at one end, i.e. return-type tubes
					using underground water as working fluidusing working fluid injected directly
F	24	T	10	20	into the ground, e.g. using injection wells and recovery wells
					using underground reservoirs for accumulating working fluids or intermediate
F	24	T	10	30	fluids
					operated without external energy sources, e.g. using thermosiphonic
F	24	T	10	40	circulation or heat pipes
F	24	T	2010	50	Component parts, details or accessories
F	24	T	2010	53	Methods for installation
F	24	T	2010	56	Control arrangements
F	24	T	2201	00	PredictionSimulation
					Geothermal systems for producing mechanical power from geothermal energy
F	24	T	50	00	F03G7/04
					COLLECTION, PRODUCTION OR USE OF HEAT NOT OTHERWISE
F	24	V	-	-	PROVIDED FOR
					Apparatus or devices using heat produced by exothermal chemical reactions
F	24	V	30	00	other than combustion
					Production or use of heat resulting from internal friction of moving fluids or
F	24	V	40	00	from friction between fluids and moving bodies
F	24	V	40	10	the fluid passing through restriction means
F	24	V	50	00	Use of heat from natural sources, e.g. from the sea
F	24	V	99	00	Subject matter not provided for in other main groups of this subclass

					remotely controlled, e.g. by sonic or radio control control systems using wire
F	42	B	19	10	F41G7/32
G	01	M	13	003	Machine valves testing valves for fluid tightness G01M3/00
G	01	N	33	202	Constituents thereof
G	01	N	33	2022	Non-metallic constituents
G	01	N	33	2025	Gaseous constituents
G	01	N	33	2028	Metallic constituents
G	01	N	33	204	Structure thereof, e.g. crystal structure
G	01	N	33	2045	Defects
G	01	N	33	205	in liquid state, e.g. molten metals
G	01	N	33	207	Welded or soldered jointsSolderability
G	01	N	33	208	Coatings, e.g. platings
G	01	R	31	364	Battery terminal connectors with integrated measuring arrangements
G	01	R	31	3646	for indicating electrical conditions or variables, e.g. visual or audible indicators
G	01	R	31	3647	for determining the ability of a battery to perform a critical function, e.g. cranking
G	01	R	31	367	Software therefor, e.g. for battery testing using modelling or look-up tables
G	01	R	31	371	with remote indication, e.g. on external chargers
G	01	R	31	374	with means for correcting the measurement for temperature or ageing
G	01	R	31	378	specially adapted for the type of battery or accumulator
G	01	R	31	379	for lead-acid batteries
G	01	R	31	38	Primary cells, i.e. not rechargeable
G	01	R	31	382	Arrangements for monitoring battery or accumulator variables, e.g. SoC
G	01	R	31	3828	using current integration
G	01	R	31	3832	without measurement of battery voltage
G	01	R	31	3833	using analog integrators, e.g. coulomb-meters
G	01	R	31	3835	involving only voltage measurements
G	01	R	31	3842	combining voltage and current measurements
G	01	R	31	385	Arrangements for measuring battery or accumulator variables for monitoring G01R31/382
G	01	R	31	386	using test-loads
G	01	R	31	3865	related to manufacture, e.g. testing after manufacture
G	01	R	31	387	Determining ampere-hour charge capacity or SoC
G	01	R	31	388	involving voltage measurements
G	01	R	31	389	Measuring internal impedance, internal conductance or related variables
G	01	R	31	392	Determining battery ageing or deterioration, e.g. state of health
G	01	R	31	396	Acquisition or processing of data for testing or for monitoring individual cells or groups of cells within a battery
G	02	F	1	1503	caused by oxidation-reduction reactions in organic liquid solutions, e.g. viologen solutions
G	02	F	1	1514	characterised by the electrochromic material, e.g. by the electrodeposited material
G	02	F	1	1516	comprising organic material
G	02	F	1	15165	Polymers
G	02	F	1	1524	Transition metal compounds
G	02	F	1	15245	based on iridium oxide or hydroxide
G	02	F	1	165	based on translational movement of particles in a fluid under the influence of an applied field
G	02	F	1	166	characterised by the electro-optical or magneto-optical effect

G	02	F	1	1671	involving dry toners
G	02	F	1	1673	by magnetophoresis
G	02	F	1	1675	Constructional details
G	02	F	1	16753	Structures for supporting or mounting cells, e.g. frames or bezels
G	02	F	1	16755	Substrates
G	02	F	1	16756	Insulating layers
G	02	F	1	16757	Microcapsules
G	02	F	1	1676	Electrodes
G	02	F	1	16761	Side-by-side arrangement of working electrodes and counter-electrodes
G	02	F	1	16762	having three or more electrodes per pixel
G	02	F	1	16766	for active matrices
G	02	F	1	1677	Structural association of cells with optical devices, e.g. reflectors or illuminating devices
G	02	F	1	1679	GasketsSpacersSealing of cellsFilling or closing of cells
G	02	F	1	1681	having two or more microcells partitioned by walls, e.g. of microcup type
G	02	F	1	1685	Operation of cellsCircuit arrangements affecting the entire cell
G	02	F	1	169	based on orientable non-spherical particles having a common optical characteristic, e.g. suspended particles of reflective metal flakes
G	02	F	2001	15025	having an inorganic electrochromic layer and a second solid organic electrochromic layer
G	02	F	2001	15145	the electrochromic layer comprises a mixture of anodic and cathodic compounds
G	02	F	2001	1518	Ferrocene compounds
G	02	F	2001	164	the electrolyte is made of polymers
G	05	B	2223	00	Indexing scheme associated with group G05B23/00
G	05	B	2223	02	Indirect monitoring, e.g. monitoring production to detect faults of a system
G	05	B	2223	04	Detection of intermittent failure
G	05	B	2223	06	Remote monitoring
G	05	D	16	024	Controlling the inlet pressure, e.g. back-pressure regulator
G	05	D	16	028	Controlling a pressure difference control of flow G05D7/00
G	05	D	16	0402	with two or more controllers mounted in series
G	05	D	16	0404	with two or more controllers mounted in parallel
G	05	D	16	101	the controller being arranged as a multiple-way valve
G	05	D	16	107	with a spring-loaded piston in combination with a spring-loaded slideable obturator that move together over range of motion during normal operation
G	05	D	16	109	with two or more pistons acting as a single pressure controller that move together over range of motion during normal operations controllers mounted in series G05D16/0402, controller mounted in parallel G05D16/0404
G	05	D	16	187	using pistons within the main valve
G	05	D	16	2022	actuated by a proportional solenoid throttling means G05D16/2024
G	05	D	16	2024	the throttling means being a multiple-way valve
G	05	D	16	2095	using membranes within the main valve
G	05	D	16	2097	using pistons within the main valve
G	06	F	16	00	Information retrievalDatabase structures thereforFile system structures therefor
G	06	F	16	10	File systemsFile servers
G	06	F	16	11	File system administration, e.g. details of archiving or snapshots file system backup G06F11/14

					Details of archiving lifecycle management in storage systems G06F3/0649;
G	06	F	16	113	backup systems G06F11/1446
G	06	F	16	116	Details of conversion of file system types or formats
					Details of migration of file systems migration mechanisms in storage systems
G	06	F	16	119	G06F3/0647
					using management policies backup systems G06F11/1446; file migration
G	06	F	16	122	policies for HSM systems G06F16/185
					characterised by the use of retention policies retention policies for HSM
G	06	F	16	125	systems G06F16/185
					Details of file system snapshots on the file-level, e.g. snapshot creation,
					administration, deletion use of snapshots for error detection or correction
G	06	F	16	128	G06F11/14, G06F11/16
					File access structures, e.g. distributed indices arrangements of input from, or
G	06	F	16	13	output to, record carriers G06F3/06
G	06	F	16	134	Distributed indices
G	06	F	16	137	Hash-based content-based indexing of textual data G06F16/31
G	06	F	16	14	Details of searching files based on file metadata
G	06	F	16	144	Query formulation
G	06	F	16	148	File search processing
G	06	F	16	152	using file content signatures, e.g. hash values
G	06	F	16	156	Query results presentation
					File or folder operations, e.g. details of user interfaces specifically adapted to
G	06	F	16	16	file systems
G	06	F	16	162	Delete operations erasing in storage systems G06F3/0652
G	06	F	16	164	File meta data generation
G	06	F	16	166	File name conversion
					Details of user interfaces specifically adapted to file systems, e.g. browsing
G	06	F	16	168	and visualisation, 2d or 3d GUIs query results presentation G06F16/156
G	06	F	16	17	Details of further file system functions
G	06	F	16	172	Caching, prefetching or hoarding of files
					Details of de-fragmentation performed by the file system saving storage space
					on storage systems G06F3/0608; management of blocks in storage devices
G	06	F	16	1724	G06F3/064
					Details of free space management performed by the file system saving
					storage space on storage systems G06F3/0608; management of blocks in
G	06	F	16	1727	storage devices G06F3/064
					Customisation support for file systems, e.g. localisation, multi-language
G	06	F	16	173	support, personalisation
					Details of monitoring file system events, e.g. by the use of hooks, filter drivers,
G	06	F	16	1734	logs
					for reducing power consumption or coping with limited storage space, e.g. in
					mobile devices saving storage space on storage devices G06F3/0608; power
G	06	F	16	1737	saving in storage systems G06F3/0625
					Redundancy elimination performed by the file system management of the data
					involved in backup or backup restore using de-duplication of the data
G	06	F	16	174	G06F11/14
G	06	F	16	1744	using compression, e.g. sparse files

					De-duplication implemented within the file system, e.g. based on file segments
G	06	F	16	1748	de-duplication techniques in storage systems for the management of data blocks G06F3/0641
G	06	F	16	1752	based on file chunks
G	06	F	16	1756	based on delta files
G	06	F	16	176	Support for shared access to filesFile sharing support
G	06	F	16	1767	Concurrency control, e.g. optimistic or pessimistic approaches
G	06	F	16	1774	Locking methods, e.g. locking methods for file systems allowing shared and concurrent access to files
G	06	F	16	178	Techniques for file synchronisation in file systems
G	06	F	16	1787	Details of non-transparently synchronising file systems
G	06	F	16	1794	Details of file format conversion
G	06	F	16	18	File system types
G	06	F	16	1805	Append-only file systems, e.g. using logs or journals to store data
G	06	F	16	181	providing write once read many [WORM] semantics
G	06	F	16	1815	Journaling file systems
G	06	F	16	182	Distributed file systems
G	06	F	16	1824	implemented using Network-attached Storage [NAS] architecture distributed or networked storage systems G06F3/067; protocols for distributed storage of data in a network H04L67/1097
G	06	F	16	1827	Management specifically adapted to NAS management of storage area networks [SAN] G06F3/067
G	06	F	16	183	Provision of network file services by network file servers, e.g. by using NFS, CIFS network file access protocols H04L67/1097
G	06	F	16	1834	implemented based on peer-to-peer networks, e.g. gnutella p2p communication protocols H04L67/104
G	06	F	16	1837	Management specially adapted to peer-to-peer storage networks topology management mechanisms of peer-to-peer networks H04L67/1042
G	06	F	16	184	implemented as replicated file system
G	06	F	16	1844	Management specifically adapted to replicated file systems
G	06	F	16	1847	specifically adapted to static storage, e.g. adapted to flash memory or SSD
G	06	F	16	185	Hierarchical storage management [HSM] systems, e.g. file migration or policies thereof details of archiving G06F16/11
G	06	F	16	1858	Parallel file systems, i.e. file systems supporting multiple processors
G	06	F	16	1865	Transactional file systems
G	06	F	16	1873	Versioning file systems, temporal file systems, e.g. file system supporting different historic versions of files
G	06	F	16	188	Virtual file systems
G	06	F	16	192	Implementing virtual folder structures
G	06	F	16	196	Specific adaptations of the file system to access devices and non-file objects via standard file system access operations, e.g. pseudo file systems dedicated interfaces to storage systems G06F3/0601
G	06	F	16	20	of structured data, e.g. relational data
G	06	F	16	21	Design, administration or maintenance of databases
G	06	F	16	211	Schema design and management
G	06	F	16	212	with details for data modelling support
G	06	F	16	213	with details for schema evolution support
G	06	F	16	214	Database migration support

G	06	F	16	215	Improving data qualityData cleansing, e.g. de-duplication, removing invalid entries or correcting typographical errors
G	06	F	16	217	Database tuning G06F16/2282 takes precedence; database performance monitoring G06F11/3409
G	06	F	16	219	Managing data history or versioning querying versioned data G06F16/2474; querying temporal data G06F16/2477
G	06	F	16	22	IndexingData structures thereforStorage structures
G	06	F	16	221	Column-oriented storage; Management thereof
G	06	F	16	2219	Large Object storage; Management thereof
G	06	F	16	2228	Indexing structures
G	06	F	16	2237	Vectors, bitmaps or matrices
G	06	F	16	2246	Trees, e.g. B+trees
G	06	F	16	2255	Hash tables
G	06	F	16	2264	Multidimensional index structures
G	06	F	16	2272	Management thereof
G	06	F	16	2282	Tablespace storage structures; Management thereof
G	06	F	16	2291	User-Defined Types; Storage management thereof
G	06	F	16	23	Updating
G	06	F	16	2308	Concurrency control transaction processing G06F9/466
G	06	F	16	2315	Optimistic concurrency control
G	06	F	16	2322	using timestamps
G	06	F	16	2329	using versioning
G	06	F	16	2336	Pessimistic concurrency control approaches, e.g. locking or multiple versions without time stamps
G	06	F	16	2343	Locking methods, e.g. distributed locking or locking implementation details
G	06	F	16	235	Update request formulation
G	06	F	16	2358	Change logging, detection, and notification replication G06F16/27
G	06	F	16	2365	Ensuring data consistency and integrity
G	06	F	16	2372	Updates performed during offline database operations
G	06	F	16	2379	Updates performed during online database operations; commit processing
G	06	F	16	2386	Bulk updating operations data conversion details G06F16/258
G	06	F	16	2393	Updating materialised views
G	06	F	16	24	Querying
G	06	F	16	242	Query formulation
G	06	F	16	2423	Interactive query statement specification based on a database schema
G	06	F	16	2425	Iterative querying; Query formulation based on the results of a preceding query
G	06	F	16	2428	Query predicate definition using graphical user interfaces, including menus and forms G06F16/2423 takes precedence
G	06	F	16	243	Natural language query formulation
G	06	F	16	2433	Query languages
G	06	F	16	2435	Active constructs
G	06	F	16	2438	Embedded query languages
G	06	F	16	244	Grouping and aggregation
G	06	F	16	2443	Stored procedures
G	06	F	16	2445	Data retrieval commands; View definitions
G	06	F	16	2448	for particular applications; for extensibility, e.g. user defined types
G	06	F	16	245	Query processing
G	06	F	16	2452	Query translation

G	06	F	16	24522	Translation of natural language queries to structured queries
G	06	F	16	24524	Access plan code generation and invalidation; Reuse of access plans
G	06	F	16	24526	Internal representations for queries
G	06	F	16	24528	Standardisation; Simplification
G	06	F	16	2453	Query optimisation
G	06	F	16	24532	of parallel queries
G	06	F	16	24534	Query rewriting; Transformation
G	06	F	16	24535	of sub-queries or views
G	06	F	16	24537	of operators
G	06	F	16	24539	using cached or materialised query results
G	06	F	16	2454	Optimisation of common expressions
G	06	F	16	24542	Plan optimisation
G	06	F	16	24544	Join order optimisation
G	06	F	16	24545	Selectivity estimation or determination
G	06	F	16	24547	Optimisations to support specific applications; Extensibility of optimisers
G	06	F	16	24549	Run-time optimisation
G	06	F	16	2455	Query execution
G	06	F	16	24552	Database cache management
G	06	F	16	24553	of query operations
G	06	F	16	24554	Unary operations; Data partitioning operations
G	06	F	16	24556	Aggregation; Duplicate elimination
G	06	F	16	24557	Efficient disk access during query execution
G	06	F	16	24558	Binary matching operations
G	06	F	16	2456	Join operations
G	06	F	16	24561	Intermediate data storage techniques for performance improvement
G	06	F	16	24562	Pointer or reference processing operations
G	06	F	16	24564	Applying rules; Deductive queries
G	06	F	16	24565	Triggers; Constraints
G	06	F	16	24566	Recursive queries
G	06	F	16	24568	Data stream processing; Continuous queries
G	06	F	16	24569	Query processing with adaptation to specific hardware, e.g. adapted for using GPUs or SSDs
G	06	F	16	2457	with adaptation to user needs
G	06	F	16	24573	using data annotations, e.g. user-defined metadata
G	06	F	16	24575	using context
G	06	F	16	24578	using ranking
G	06	F	16	2458	Special types of queries, e.g. statistical queries, fuzzy queries or distributed queries
G	06	F	16	2462	Approximate or statistical queries
G	06	F	16	2465	Query processing support for facilitating data mining operations in structured databases
G	06	F	16	2468	Fuzzy queries
G	06	F	16	2471	Distributed queries
G	06	F	16	2474	Sequence data queries, e.g. querying versioned data
G	06	F	16	2477	Temporal data queries
G	06	F	16	248	Presentation of query results
G	06	F	16	25	Integrating or interfacing systems involving database management systems
G	06	F	16	252	between a Database Management System and a front-end application

					Extract, transform and load [ETL] procedures, e.g. ETL data flows in data
G	06	F	16	254	warehouses
G	06	F	16	256	in federated or virtual databases
G	06	F	16	258	Data format conversion from or to a database
G	06	F	16	26	Visual data miningBrowsing structured data
					Replication, distribution or synchronisation of data between databases or within a distributed database systemDistributed database system architectures
G	06	F	16	27	therefor
G	06	F	16	273	Asynchronous replication or reconciliation
G	06	F	16	275	Synchronous replication
G	06	F	16	278	Data partitioning, e.g. horizontal or vertical partitioning
					Databases characterised by their database models, e.g. relational or object
G	06	F	16	28	models
G	06	F	16	282	Hierarchical databases, e.g. IMS, LDAP data stores or Lotus Notes
G	06	F	16	283	Multi-dimensional databases or data warehouses, e.g. MOLAP or ROLAP
G	06	F	16	284	Relational databases
G	06	F	16	285	Clustering or classification
G	06	F	16	287	Visualization; Browsing
G	06	F	16	288	Entity relationship models
G	06	F	16	289	Object oriented databases
G	06	F	16	29	Geographical information databases
G	06	F	16	30	of unstructured textual data document management systems G06F16/93
G	06	F	16	31	IndexingData structures thereforStorage structures
G	06	F	16	313	Selection or weighting of terms for indexing
G	06	F	16	316	Indexing structures
G	06	F	16	319	Inverted lists
G	06	F	16	322	Trees
G	06	F	16	325	Hash tables
G	06	F	16	328	Management therefor
G	06	F	16	33	Querying
G	06	F	16	332	Query formulation
G	06	F	16	3322	using system suggestions G06F16/3325 takes precedence
					using document space presentation or visualization, e.g. category, hierarchy
G	06	F	16	3323	or range presentation and selection
G	06	F	16	3325	Reformulation based on results of preceding query
					using relevance feedback from the user, e.g. relevance feedback on
G	06	F	16	3326	documents, documents sets, document terms or passages
G	06	F	16	3328	using graphical result space presentation or visualisation
G	06	F	16	3329	Natural language query formulation or dialogue systems
G	06	F	16	3331	Query processing
G	06	F	16	3332	Query translation
					Selection or weighting of terms from queries, including natural language
G	06	F	16	3334	queries
G	06	F	16	3335	Syntactic pre-processing, e.g. stopword elimination, stemming
G	06	F	16	3337	Translation of the query language, e.g. Chinese to English
G	06	F	16	3338	Query expansion
G	06	F	16	334	Query execution G06F16/335 takes precedence
G	06	F	16	3341	using boolean model
G	06	F	16	3343	using phonetics
G	06	F	16	3344	using natural language analysis

G	06	F	16	3346	using probabilistic model
G	06	F	16	3347	using vector based model
G	06	F	16	3349	Reuse of stored results of previous queries
G	06	F	16	335	Filtering based on additional data, e.g. user or group profiles filtering in web context G06F16/9535, G06F16/9536
G	06	F	16	337	Profile generation, learning or modification
G	06	F	16	338	Presentation of query results
G	06	F	16	34	BrowsingVisualisation therefor
G	06	F	16	345	Summarisation for human users
G	06	F	16	35	ClusteringClassification
G	06	F	16	353	into predefined classes
G	06	F	16	355	Class or cluster creation or modification
G	06	F	16	358	Browsing; Visualisation therefor
G	06	F	16	36	Creation of semantic tools, e.g. ontology or thesauri
G	06	F	16	367	Ontology
G	06	F	16	374	Thesaurus
G	06	F	16	38	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	381	using identifiers, e.g. barcodes, RFIDs for URLs G06F16/9554
G	06	F	16	382	using citations hypermedia G06F16/94
G	06	F	16	383	using metadata automatically derived from the content
G	06	F	16	387	using geographical or spatial information, e.g. location
G	06	F	16	40	of multimedia data, e.g. slideshows comprising image and additional audio data retrieval of still image data G06F16/50; retrieval of audio data G06F16/60; retrieval of video data G06F16/70
G	06	F	16	41	IndexingData structures thereforStorage structures
G	06	F	16	43	Querying
G	06	F	16	432	Query formulation
G	06	F	16	433	using audio data
G	06	F	16	434	using image data, e.g. images, photos, pictures taken by a user
G	06	F	16	435	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	436	using biological or physiological data of a human being, e.g. blood pressure, facial expression, gestures
G	06	F	16	437	Administration of user profiles, e.g. generation, initialisation, adaptation, distribution
G	06	F	16	438	Presentation of query results
G	06	F	16	4387	by the use of playlists
G	06	F	16	4393	Multimedia presentations, e.g. slide shows, multimedia albums
G	06	F	16	44	BrowsingVisualisation therefor
G	06	F	16	444	Spatial browsing, e.g. 2D maps, 3D or virtual spaces
G	06	F	16	447	Temporal browsing, e.g. timeline
G	06	F	16	45	ClusteringClassification
G	06	F	16	48	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	483	using metadata automatically derived from the content
G	06	F	16	487	using geographical or spatial information, e.g. location
G	06	F	16	489	using time information
G	06	F	16	50	of still image data
G	06	F	16	51	IndexingData structures thereforStorage structures
G	06	F	16	53	Querying

G	06	F	16	532	Query formulation, e.g. graphical querying
G	06	F	16	535	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	538	Presentation of query results
G	06	F	16	54	BrowsingVisualisation therefor
G	06	F	16	55	ClusteringClassification
G	06	F	16	56	having vectorial format
G	06	F	16	58	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	583	using metadata automatically derived from the content
G	06	F	16	5838	using colour
G	06	F	16	5846	using extracted text
G	06	F	16	5854	using shape and object relationship
G	06	F	16	5862	using texture
G	06	F	16	5866	using information manually generated, e.g. tags, keywords, comments, manually generated location and time information
G	06	F	16	587	using geographical or spatial information, e.g. location
G	06	F	16	60	of audio data
G	06	F	16	61	IndexingData structures thereforStorage structures
G	06	F	16	63	Querying
G	06	F	16	632	Query formulation
G	06	F	16	634	Query by example, e.g. query by humming
G	06	F	16	635	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	636	by using biological or physiological data
G	06	F	16	637	Administration of user profiles, e.g. generation, initialization, adaptation or distribution
G	06	F	16	638	Presentation of query results
G	06	F	16	639	using playlists
G	06	F	16	64	BrowsingVisualisation therefor generation of a list or set of audio data G06F16/638
G	06	F	16	65	ClusteringClassification
G	06	F	16	68	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	683	using metadata automatically derived from the content
G	06	F	16	685	using automatically derived transcript of audio data, e.g. lyrics speech recognition G10L15/00
G	06	F	16	686	using information manually generated, e.g. tags, keywords, comments, title or artist information, time, location or usage information, user ratings
G	06	F	16	687	using geographical or spatial information, e.g. location
G	06	F	16	70	of video data
G	06	F	16	71	IndexingData structures thereforStorage structures
G	06	F	16	73	Querying
G	06	F	16	732	Query formulation
G	06	F	16	7328	Query by example, e.g. a complete video frame or video sequence graphical querying G06F16/7335
G	06	F	16	7335	Graphical querying, e.g. query-by-region, query-by-sketch, query-by-trajectory, GUIs for designating a person/face/object as a query predicate end-user interface involving hot spots associated with the video H04N21/4725; end-user interface for selecting a Region of Interest H04N21/4728
G	06	F	16	7343	Query language or query format

G	06	F	16	735	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	738	Presentation of query results
G	06	F	16	739	in form of a video summary, e.g. the video summary being a video sequence, a composite still image or having synthesized frames
G	06	F	16	74	BrowsingVisualisation therefor end-user interfaces for requesting or interacting with video content, e.g. video on demand interfaces or electronic program guides, H04N21/472
G	06	F	16	743	a collection of video files or sequences
G	06	F	16	745	the internal structure of a single video sequence
G	06	F	16	748	Hypervideo linking data to content, e.g. by linking an URL to a video object in the context of video distribution systems H04N21/858
G	06	F	16	75	ClusteringClassification
G	06	F	16	78	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	783	using metadata automatically derived from the content
G	06	F	16	7834	using audio features
G	06	F	16	7837	using objects detected or recognised in the video content
G	06	F	16	784	the detected or recognised objects being people
G	06	F	16	7844	using original textual content or text extracted from visual content or transcript of audio data
G	06	F	16	7847	using low-level visual features of the video content
G	06	F	16	785	using colour or luminescence
G	06	F	16	7854	using shape G06F16/7837 takes precedence
G	06	F	16	7857	using texture G06F16/7837 takes precedence
G	06	F	16	786	using motion, e.g. object motion or camera motion
G	06	F	16	7864	using domain-transform features, e.g. DCT or wavelet transform coefficients
G	06	F	16	7867	using information manually generated, e.g. tags, keywords, comments, title and artist information, manually generated time, location and usage information, user ratings
G	06	F	16	787	using geographical or spatial information, e.g. location
G	06	F	16	80	of semi-structured data, e.g. markup language structured data such as SGML, XML or HTML content-based retrieval of web data G06F16/95
G	06	F	16	81	Indexing, e.g. XML tagsData structures thereforStorage structures
G	06	F	16	83	Querying
G	06	F	16	832	Query formulation
G	06	F	16	835	Query processing
G	06	F	16	8358	Query translation
G	06	F	16	8365	Query optimisation
G	06	F	16	8373	Query execution
G	06	F	16	838	Presentation of query results
G	06	F	16	84	MappingConversion
G	06	F	16	86	Mapping to a database
G	06	F	16	88	Mark-up to mark-up conversion conversion for visualization in web browsing G06F16/9577
G	06	F	16	90	Details of database functions independent of the retrieved data types
G	06	F	16	901	IndexingData structures thereforStorage structures for retrieval from the web G06F16/951
G	06	F	16	9014	hash tables

					using directory or table look-up use of a directory or look-up table in file
G	06	F	16	9017	systems G06F16/13
G	06	F	16	902	using more than one table in sequence, i.e. systems with three or more layers
G	06	F	16	9024	Graphs; Linked lists G06F16/9027 takes precedence
G	06	F	16	9027	Trees
G	06	F	16	903	Querying for retrieval from the web G06F16/953
G	06	F	16	9032	Query formulation
G	06	F	16	90324	using system suggestions
G	06	F	16	90328	using search space presentation or visualization, e.g. category or range presentation and selection
G	06	F	16	90332	Natural language query formulation or dialogue systems
G	06	F	16	90335	Query processing
G	06	F	16	90339	by using parallel associative memories or content-addressable memories
G	06	F	16	90344	by using string matching techniques
G	06	F	16	90348	by searching ordered data, e.g. alpha-numerically ordered data
G	06	F	16	9035	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	9038	Presentation of query results
G	06	F	16	904	BrowsingVisualisation therefor for navigating the web G06F16/954; browsing optimisation for the web G06F16/957
G	06	F	16	906	ClusteringClassification
G	06	F	16	907	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	908	using metadata automatically derived from the content
G	06	F	16	909	using geographical or spatial information, e.g. location spatiotemporally dependent retrieval from the web G06F16/9537
G	06	F	16	93	Document management systems
G	06	F	16	94	Hypermedia hyperlinking within text processing G06F17/2235
G	06	F	16	95	Retrieval from the web
G	06	F	16	951	IndexingWeb crawling techniques
G	06	F	16	953	Querying, e.g. by the use of web search engines
G	06	F	16	9532	Query formulation
G	06	F	16	9535	Search customisation based on user profiles and personalisation
G	06	F	16	9536	Search customisation based on social or collaborative filtering
G	06	F	16	9537	Spatial or temporal dependent retrieval, e.g. spatiotemporal queries
G	06	F	16	9538	Presentation of query results
G	06	F	16	954	Navigation, e.g. using categorised browsing
G	06	F	16	955	using information identifiers, e.g. uniform resource locators [URL]
G	06	F	16	9554	by using bar codes
G	06	F	16	9558	Details of hyperlinks; Management of linked annotations
G	06	F	16	9562	Bookmark management
G	06	F	16	9566	URL specific, e.g. using aliases, detecting broken or misspelled links
G	06	F	16	957	Browsing optimisation, e.g. caching or content distillation
G	06	F	16	9574	of access to content, e.g. by caching
G	06	F	16	9577	Optimising the visualization of content, e.g. distillation of HTML documents
G	06	F	16	958	Organisation or management of web site content, e.g. publishing, maintaining pages or automatic linking
G	06	F	16	972	Access to data in other repository systems, e.g. legacy data or dynamic Web page generation

G	06	F	16	986	Document structures and storage, e.g. HTML extensions
G	06	N	10	00	Quantum computers, i.e. computer systems based on quantum-mechanical phenomena
G	06	N	20	00	Machine learning
G	06	N	20	10	using kernel methods, e.g. support vector machines [SVM]
G	06	N	20	20	Ensemble learning
G	07	D	11	10	Mechanical details
G	07	D	11	12	Containers for valuable papers
G	07	D	11	125	Secure containers
G	07	D	11	13	with internal means for handling valuable papers
G	07	D	11	135	Remote note containers
G	07	D	11	14	Inlet or outlet ports
G	07	D	11	16	Handling of valuable papers within containers G07D11/13
G	07	D	11	165	Picking
G	07	D	11	17	Aligning
G	07	D	11	175	Flattening, e.g. straightening out folds
G	07	D	11	18	Diverting into different paths or containers
G	07	D	11	20	Controlling or monitoring the operation of devicesData handling
G	07	D	11	22	Means for sensing or detection
G	07	D	11	225	for detecting or indicating tampering
G	07	D	11	23	for sensing the quantity of valuable papers in containers
G	07	D	11	235	for monitoring or indicating operating conditionsfor detecting malfunctions
G	07	D	11	237	for detecting transport malfunctions, e.g. jams or misfeeds
G	07	D	11	24	Managing the stock of valuable papers
G	07	D	11	245	Replenishment
G	07	D	11	25	Relocation of valuable papers within devices
G	07	D	11	26	Servicing, repairing or coping with irregularities, e.g. power failure or vandalism
G	07	D	11	28	Setting of parametersSoftware updates
G	07	D	11	30	Tracking or tracing valuable papers or cassettes
G	07	D	11	32	Record keeping transaction aspects G07F19/00
G	07	D	11	34	Monitoring the contents of devices, e.g. the number of stored valuable papers
G	07	D	11	36	Auditing of activities
G	07	D	11	40	Device architecture, e.g. modular construction
G	07	D	11	50	Sorting or counting valuable papers
G	07	D	11	60	User-interface arrangements
G	10	B	3	24	Cases
G	10	C	3	07	Strings resonant strings G10C3/06
G	10	C	3	23	with hammers mounted above the strings, striking downwards
G	10	C	5	10	Switching musical instruments to a keyboard, e.g. switching a piano mechanism or an electrophonic instrument to a keyboardSwitching musical instruments to a silent mode
G	16	B	-	-	BIOINFORMATICS, i.e. INFORMATION AND COMMUNICATION TECHNOLOGY [ICT] SPECIALLY ADAPTED FOR GENETIC OR PROTEIN-RELATED DATA PROCESSING IN COMPUTATIONAL MOLECULAR BIOLOGY
G	16	B	10	00	ICT specially adapted for evolutionary bioinformatics, e.g. phylogenetic tree construction or analysis

					ICT specially adapted for analysing two-dimensional or three-dimensional molecular structures, e.g. structural or functional relations or structure
G	16	B	15	00	alignment
G	16	B	15	10	Nucleic acid folding
G	16	B	15	20	Protein or domain folding
G	16	B	15	30	Drug targeting using structural dataDocking or binding prediction
					ICT specially adapted for functional genomics or proteomics, e.g. genotype-
G	16	B	20	00	phenotype associations
G	16	B	20	10	Ploidy or copy number detection
					Allele or variant detection, e.g. single nucleotide polymorphism [SNP]
G	16	B	20	20	detection
G	16	B	20	30	Detection of binding sites or motifs
G	16	B	20	40	Population geneticsLinkage disequilibrium
G	16	B	20	50	Mutagenesis
					ICT specially adapted for hybridisationICT specially adapted for gene or
G	16	B	25	00	protein expression
					Gene or protein expression profilingExpression-ratio estimation or
G	16	B	25	10	normalisation
G	16	B	25	20	Polymerase chain reaction [PCR]Primer or probe designProbe optimisation
G	16	B	25	30	Microarray design
					ICT specially adapted for sequence analysis involving nucleotides or amino
G	16	B	30	00	acids
G	16	B	30	10	Sequence alignmentHomology search
G	16	B	30	20	Sequence assembly
					ICT specially adapted for in silico combinatorial libraries of nucleic acids,
G	16	B	35	00	proteins or peptides
G	16	B	35	10	Design of libraries
G	16	B	35	20	Screening of libraries
					ICT specially adapted for biostatisticsICT specially adapted for bioinformatics-related machine learning or data mining, e.g. knowledge discovery or pattern
G	16	B	40	00	finding
G	16	B	40	10	Signal processing, e.g. from mass spectrometry [MS] or from PCR
G	16	B	40	20	Supervised data analysis
G	16	B	40	30	Unsupervised data analysis
					ICT specially adapted for bioinformatics-related data visualisation, e.g.
G	16	B	45	00	displaying of maps or networks
					ICT specially adapted for modelling or simulations in systems biology, e.g.
G	16	B	5	00	gene-regulatory networks, protein interaction networks or metabolic networks
G	16	B	5	10	Boolean models
G	16	B	5	20	Probabilistic models
G	16	B	5	30	Dynamic-time models
					ICT programming tools or database systems specially adapted for
G	16	B	50	00	bioinformatics
G	16	B	50	10	OntologiesAnnotations
G	16	B	50	20	Heterogeneous data integration
G	16	B	50	30	Data warehousingComputing architectures
G	16	B	50	40	Encryption of genetic data
G	16	B	50	50	Compression of genetic data

G	16	B	99	00	Subject matter not provided for in other groups of this subclass
G	16	C	-	-	COMPUTATIONAL CHEMISTRYCHEMOINFORMATICSCOMPUTATIONAL MATERIALS SCIENCE
G	16	C	10	00	Computational theoretical chemistry, i.e. ICT specially adapted for theoretical aspects of quantum chemistry, molecular mechanics, molecular dynamics or the like
G	16	C	20	00	Chemoinformatics, i.e. ICT specially adapted for the handling of physicochemical or structural data of chemical particles, elements, compounds or mixtures
G	16	C	20	10	Analysis or design of chemical reactions, syntheses or processes
G	16	C	20	20	Identification of molecular entities, parts thereof or of chemical compositions
G	16	C	20	30	Prediction of properties of chemical compounds, compositions or mixtures
G	16	C	20	40	Searching chemical structures or physicochemical data
G	16	C	20	50	Molecular design, e.g. of drugs
G	16	C	20	60	In silico combinatorial chemistry
G	16	C	20	62	Design of libraries
G	16	C	20	64	Screening of libraries
G	16	C	20	70	Machine learning, data mining or chemometrics
G	16	C	20	80	Data visualisation
G	16	C	20	90	Programming languagesComputing architecturesDatabase systemsData warehousing
G	16	C	60	00	Computational materials science, i.e. ICT specially adapted for investigating the physical or chemical properties of materials or phenomena associated with their design, synthesis, processing, characterisation or utilisation
G	16	C	99	00	Subject matter not provided for in other groups of this subclass
G	16	Z	-	-	INFORMATION AND COMMUNICATION TECHNOLOGY [ICT] SPECIALLY ADAPTED FOR SPECIFIC APPLICATION FIELDS, NOT OTHERWISE PROVIDED FOR
G	16	Z	99	00	Subject matter not provided for in other main groups of this subclass
G	21	C	1	088	Inherently safe boiling water reactors
G	21	C	13	063	Seals for closures or for rotatable closures
G	21	C	15	185	using energy stored in reactor system
G	21	C	15	187	using energy from the electric grid
G	21	C	3	045	Pellets
G	21	C	3	047	Pellet-clad interaction
G	21	C	3	048	Shape of pellets
G	21	C	3	3225	by waterrods
G	21	C	3	3262	Enrichment distribution in zones
G	21	C	3	3265	Radial distribution
G	21	C	3	3267	Axial distribution
G	21	C	3	3432	Grids designed to influence the coolant, i.e. coolant mixing function
G	21	D	3	002	Core design; core simulations; core optimisation
G	21	D	3	004	Fuel shuffle simulation; fuel shuffle optimisation
G	21	D	3	005	Thermo-hydraulic simulations
G	21	D	3	007	Expert systems
G	21	F	5	125	Means to monitor or detect the leak-tightness of the closure

H	04	N	11	24	High-definition television systems
H	04	N	11	26	involving two-channel transmission
H	04	N	11	28	involving bandwidth reduction, e.g. subsampling
H	04	N	11	30	with transmission of the extra information by means of quadrature modulation
H	04	N	13	10	Processing, recording or transmission of stereoscopic or multi-view image signals
H	04	N	13	106	Processing image signals for multi-view video sequence encoding H04N19/597
H	04	N	13	111	Transformation of image signals corresponding to virtual viewpoints, e.g. spatial image interpolation
H	04	N	13	117	the virtual viewpoint locations being selected by the viewers or determined by viewer tracking
H	04	N	13	122	Improving the 3D impression of stereoscopic images by modifying image signal contents, e.g. by filtering or adding monoscopic depth cues H04N13/128 takes precedence
H	04	N	13	125	for crosstalk reduction
H	04	N	13	128	Adjusting depth or disparity
H	04	N	13	133	Equalising the characteristics of different image components, e.g. their average brightness or colour balance
H	04	N	13	139	Format conversion, e.g. of frame-rate or size
H	04	N	13	144	for flicker reduction
H	04	N	13	15	for colour aspects of image signals
H	04	N	13	156	Mixing image signals
H	04	N	13	158	Switching image signals
H	04	N	13	161	Encoding, multiplexing or demultiplexing different image signal components for multi-view video sequence encoding H04N19/597
H	04	N	13	167	Synchronising or controlling image signals
H	04	N	13	172	image signals comprising non-image signal components, e.g. headers or format information
H	04	N	13	178	Metadata, e.g. disparity information
H	04	N	13	183	On-screen display [OSD] information, e.g. subtitles or menus
H	04	N	13	189	Recording image signalsReproducing recorded image signals
H	04	N	13	194	Transmission of image signals
H	04	N	13	20	Image signal generators
H	04	N	13	204	using stereoscopic image cameras stereoscopic photography G03B35/00
H	04	N	13	207	using a single 2D image sensor
H	04	N	13	211	using temporal multiplexing
H	04	N	13	214	using spectral multiplexing
H	04	N	13	218	using spatial multiplexing
H	04	N	13	221	using the relative movement between cameras and objects
H	04	N	13	225	using parallax barriers
H	04	N	13	229	using lenticular lenses, e.g. arrangements of cylindrical lenses
H	04	N	13	232	using fly-eye lenses, e.g. arrangements of circular lenses
H	04	N	13	236	using varifocal lenses or mirrors
H	04	N	13	239	using two 2D image sensors having a relative position equal to or related to the interocular distance H04N13/243 takes precedence
H	04	N	13	243	using three or more 2D image sensors
H	04	N	13	246	Calibration of cameras

					using two or more image sensors with different characteristics other than in their location or field of view, e.g. having different resolutions or colour pickup characteristicsusing image signals from one sensor to control the
H	04	N	13	25	characteristics of another sensor
H	04	N	13	254	in combination with electromagnetic radiation sources for illuminating objects
H	04	N	13	257	Colour aspects
H	04	N	13	261	with monoscopic-to-stereoscopic image conversion
H	04	N	13	264	using the relative movement of objects in two video frames or fields
H	04	N	13	266	by scanning a film
H	04	N	13	268	based on depth image-based rendering [DIBR]
H	04	N	13	271	wherein the generated image signals comprise depth maps or disparity maps
H	04	N	13	275	from 3D object models, e.g. computer-generated stereoscopic image signals
H	04	N	13	279	the virtual viewpoint locations being selected by the viewers or determined by tracking
H	04	N	13	282	for generating image signals corresponding to three or more geometrical viewpoints, e.g. multi-view systems
H	04	N	13	286	having separate monoscopic and stereoscopic modes
H	04	N	13	289	Switching between monoscopic and stereoscopic modes
H	04	N	13	293	Generating mixed stereoscopic imagesGenerating mixed monoscopic and stereoscopic images, e.g. a stereoscopic image overlay window on a monoscopic image background
H	04	N	13	296	Synchronisation thereofControl thereof
H	04	N	13	30	Image reproducers optical systems for producing stereoscopic or other three-dimensional effects G02B27/22
H	04	N	13	302	for viewing without the aid of special glasses, i.e. using autostereoscopic displays
H	04	N	13	305	using lenticular lenses, e.g. arrangements of cylindrical lenses
H	04	N	13	307	using fly-eye lenses, e.g. arrangements of circular lenses
H	04	N	13	31	using parallax barriers
H	04	N	13	312	the parallax barriers being placed behind the display panel, e.g. between backlight and spatial light modulator [SLM]
H	04	N	13	315	the parallax barriers being time-variant
H	04	N	13	317	using slanted parallax optics
H	04	N	13	32	using arrays of controllable light sourcesusing moving apertures or moving light sources
H	04	N	13	322	using varifocal lenses or mirrors
H	04	N	13	324	Colour aspects
H	04	N	13	327	Calibration thereof
H	04	N	13	332	Displays for viewing with the aid of special glasses or head-mounted displays [HMD]
H	04	N	13	334	using spectral multiplexing
H	04	N	13	337	using polarisation multiplexing
H	04	N	13	339	using spatial multiplexing H04N13/337 takes precedence
H	04	N	13	341	using temporal multiplexing
H	04	N	13	344	with head-mounted left-right displays
H	04	N	13	346	using prisms or semi-transparent mirrors

					Multi-view displays for displaying three or more geometrical viewpoints without viewer tracking for viewing without the aid of special glasses using fly-eye
H	04	N	13	349	lenses H04N13/307
H	04	N	13	351	for displaying simultaneously
H	04	N	13	354	for displaying sequentially
H	04	N	13	356	having separate monoscopic and stereoscopic modes
H	04	N	13	359	Switching between monoscopic and stereoscopic modes
					Reproducing mixed stereoscopic imagesReproducing mixed monoscopic and stereoscopic images, e.g. a stereoscopic image overlay window on a
H	04	N	13	361	monoscopic image background
H	04	N	13	363	using image projection screens volumetric display H04N13/388
H	04	N	13	365	using digital micromirror devices [DMD]
H	04	N	13	366	using viewer tracking
H	04	N	13	368	for two or more viewers
					for tracking viewers with different interocular distancesfor tracking rotational
H	04	N	13	371	head movements around the vertical axis
					for tracking forward-backward translational head movements, i.e. longitudinal
H	04	N	13	373	movements
H	04	N	13	376	for tracking left-right translational head movements, i.e. lateral movements
					for tracking rotational head movements around an axis perpendicular to the
H	04	N	13	378	screen
H	04	N	13	38	for tracking vertical translational head movements
					for tracking with gaze detection, i.e. detecting the lines of sight of the viewer's
H	04	N	13	383	eyes
					alternating rapidly the location of the left-right image components on the display screens for viewing without the aid of special glasses using time variant parallax barriers H04N13/315; displays for viewing with the aid of special glasses or head-mounted displays using temporal multiplexing
H	04	N	13	385	H04N13/341
					Volumetric displays, i.e. systems where the image is built up from picture
H	04	N	13	388	elements distributed through a volume
					the picture elements emitting light at places where a pair of light beams
H	04	N	13	39	intersect in a transparent material
H	04	N	13	393	the volume being generated by a moving, e.g. vibrating or rotating, surface
					with depth sampling, i.e. the volume being constructed from a stack or
H	04	N	13	395	sequence of 2D image planes
H	04	N	13	398	Synchronisation thereofControl thereof
					Privacy aspects, i.e. devices showing different images to different viewers, the
H	04	N	2013	40	images not being viewpoints of the same scene
H	04	N	2013	403	the images being monoscopic
H	04	N	2013	405	the images being stereoscopic or three dimensional
					Elements optimizing image sensor operations, e.g. EMF protection, heat
H	04	N	5	22521	transfer, moisture or dust
H	04	N	5	22525	Electronic viewfinders
H	04	N	5	225251	rotatable or detachable
H	04	N	5	22541	Optical arrangements for light-field or plenoptic cameras
					using Master/Slave camera arrangements for affecting the control of camera image capture, e.g. placing the camera in a desirable condition to capture a
H	04	N	5	232061	desired image

					and on active ranging signals, e.g. using light or sound signals emitted toward
H	04	N	5	232121	objects
H	04	N	5	232122	based on the difference in phase of signals
					based on contrast or high frequency components of image signals, e.g. hill
H	04	N	5	232123	climbing method
					adjusting depth of field during image capture, e.g. maximizing or setting range
H	04	N	5	232125	based on scene characteristics
H	04	N	5	232127	setting of focusing region
H	04	N	5	232133	Bracketing relating to the capture of varying focusing conditions
H	04	N	5	23218	Control of camera operation based on recognized objects
					involving internal camera communication with the image sensor, e.g.
H	04	N	5	23227	synchronizing or multiplexing SSIS control signals
					where power supply is reduced or conserved by affecting camera operations, e.g. sleep mode, hibernation mode, power off or turning off selective parts of
H	04	N	5	232411	the camera
					Graphical User Interface [GUI] specifically adapted for controlling image
H	04	N	5	232933	capture or setting capture parameters, e.g. using a touchscreen
					for displaying or modifying preview images prior to image capturing, e.g.
H	04	N	5	232935	variety of image resolutions or capturing parameters
					for displaying additional information relating to control or operation of the
H	04	N	5	232939	camera
H	04	N	5	232941	Warning indications
H	04	N	5	232945	Region indicators or field of view
					Controlling the position of the camera for changing the field of view, e.g. panning, tilting or tracking of objects TV type tracking systems G01S3/7864; tracking movement of a target in burglar, theft or intruder alarms, using TV
H	04	N	5	23299	cameras G08B13/19608
					involving a transfer function modeling the optical system, e.g. Optical Transfer Function [OTF], Phase Transfer Function [PhTF] or Modulation Transfer
H	04	N	5	35721	Function [MTF]
					the other type of pixels are pixels specially adapted for focusing, e.g. phase
H	04	N	5	36961	difference pixel sets
					Details of pixels used only for dark current, e.g. dummy pixels or optical black
H	04	N	5	36963	pixels
					the other type of pixels are pixels for depth measurement, e.g. RGBZ where Z is the depth pixel or embedded time-of-flight pixels depth pixels used only for
H	04	N	5	36965	focusing H04N5/36961
					Details of the architecture or circuitry being divided to different or multiple substrates, chips or circuit boards, e.g. stacked image sensors line sensors
H	04	N	5	379	H04N5/3694
H	04	N	9	0451	characterized by colour imaging operations
					by partially reading a SSIS to preserve the colour pattern with or without loss
H	04	N	9	04511	of information
H	04	N	9	04513	to modify Gamut
					Demosaicing, e.g. interpolating colour pixel values Computational
H	04	N	9	04515	demosaicing G06T3/4015
H	04	N	9	04517	Correcting colour aberration of lenses
					using transfer functions modeling the optical system, e.g. Optical Transfer Function [OTF], Phase Transfer Function [PhTF] or Modulation Transfer
H	04	N	9	04519	Function [MTF]

H	04	N	9	04521	Colour sequential image capture, e.g. using a colour wheel
H	04	N	9	0455	Colour filter architecture colour filters structurally associated with image sensors H01L27/146
H	04	N	9	04551	Mosaic colour filter
H	04	N	9	04553	including elements transmitting or passing infrared wavelengths
H	04	N	9	04555	including elements transmitting or passing panchromatic light, e.g. white light
H	04	N	9	04557	based on three different wavelength filter elements
H	04	N	9	04559	based on four or more different wavelength filter elements
H	04	N	9	04561	using complementary colours
H	04	N	9	04563	colour separation based on photon absorption depth, e.g. full colour resolution obtained simultaneously at each pixel location
H	04	W	12	001	Protecting confidentiality, e.g. by encryption or ciphering
H	04	W	12	0013	of user plane, e.g. user traffic
H	04	W	12	0017	of control plane, e.g. signalling traffic
H	04	W	12	002	Mobile device security; Mobile application security
H	04	W	12	0023	Protecting application or service provisioning, e.g. securing SIM application provisioning
H	04	W	12	0027	Managing security policies for mobile device or applications control, e.g. mobile application permission management or mobile device security settings
H	04	W	12	003	Secure pairing of devices, e.g. bootstrapping a secure communication link between pairing terminals; Secure socializing
H	04	W	12	00305	involving three or more devices, e.g. group pairing
H	04	W	12	004	using identity modules
H	04	W	12	00401	using virtual identity modules
H	04	W	12	00403	using shared identity modules, e.g. SIM sharing
H	04	W	12	00405	using multiple identity modules
H	04	W	12	00407	using near field communication [NFC], e.g. NFC tag, smart tag or radio frequency identification [RFID] module
H	04	W	12	00409	using secure binding, e.g. securely binding identity modules to devices, services or applications
H	04	W	12	005	Context aware security
H	04	W	12	00502	Time aware
H	04	W	12	00503	Location or proximity aware, e.g. using proximity to other devices
H	04	W	12	00504	Ambient aware, e.g. using captured environmental data
H	04	W	12	00505	Risk aware, e.g. selecting security levels depending on risk profiles
H	04	W	12	00506	Trust aware, e.g. using trust scores or trust relationships
H	04	W	12	00508	Gesture or behaviour aware, e.g. device movements or behaviometrics
H	04	W	12	0051	Identity aware
H	04	W	12	00512	Hardware identity
H	04	W	12	00514	Subscriber identity
H	04	W	12	00516	Access point logical identity
H	04	W	12	00518	Temporary identity
H	04	W	12	0052	Group identity
H	04	W	12	00522	Graphical identity
H	04	W	12	00524	Radio fingerprint
H	04	W	12	007	Lawful interception
H	04	W	12	009	specially adapted for networks, e.g. wireless sensor networks, ad-hoc networks, RFID networks or cloud networks

H	04	W	12	0401 Key generation or derivation
H	04	W	12	0403 using a trusted network node as anchor
H	04	W	12	04031 Key distribution, e.g. key pre-distribution or key agreement
H	04	W	12	04033 Key management protocols, e.g. managing shared keys, group keys, multicast keys or rekeying
H	04	W	12	0407 without using a trusted network node as anchor
H	04	W	12	04071 Key exchange, e.g. between nodes
H	04	W	12	0602 Pre-authentication
H	04	W	12	0605 Continuous authentication
H	04	W	12	0608 using credential vaults, e.g. password manager applications or one time password [OTP] applications
H	04	W	12	0609 using certificates or pre-shared keys
H	04	W	12	0802 using revocation of authorisation
H	04	W	12	0804 using delegated authorisation, e.g. Open Authorisation [OAuth] protocol, user centric management of access rights or user consent
H	04	W	12	0806 using security domains, e.g. separating enterprise and private data domains, building machine-to-machine [M2M] domains or global platform domains
H	04	W	12	0808 using packet filters or firewalls
H	04	W	12	1002 Route integrity, e.g. using trusted paths
H	04	W	12	1004 Location integrity, e.g. secure geo-tagging or trusted cell tagging
H	04	W	12	1006 Packet or message integrity
H	04	W	12	1008 Source integrity
H	04	W	12	1201 Wireless intrusion detection system [WIDS]; Wireless intrusion prevention system [WIPS]
H	04	W	12	1202 Protecting against rogue devices
H	04	W	12	1204 Countermeasures against attacks
H	04	W	12	1205 Protecting against power exhaustion attacks, e.g. power depletion, starvation attack or sleep deprivation attack
H	04	W	12	1206 Anti-theft arrangements, e.g. protecting against device theft, subscriber identity module [SIM] cloning or machine-to-machine [M2M] displacement
H	04	W	12	1208 Anti-malware arrangements, e.g. protecting against SMS fraud or mobile malware
H	04	W	36	0007 for multicast or broadcast services, e.g. MBMS multicast or broadcast application services H04W4/06; resource management for broadcast services H04W72/005; connection management for selective distribution or broadcast H04W76/40
H	04	W	36	0009 for a plurality of users or terminals, e.g. group communication or moving wireless networks user group management H04W4/08; processing of subscriber group data H04W8/186
H	04	W	36	0058 Transmission of hand-off measurement information, e.g. measurement reports
H	04	W	36	0069 in case of dual connectivity, e.g. CoMP, decoupled uplink/downlink or carrier aggregation allocation of physical resources in CoMP or in carrier aggregation H04L5/0035
H	04	W	36	0079 in case of hand-off failure or rejection
H	04	W	36	00835 Determination of the neighbour cell list
H	04	W	36	00837 Determination of triggering parameters for hand-off
H	04	W	36	0085 Hand-off measurements
H	04	W	36	03 Reselecting a link using a direct mode connection

H	04	W	36	125	involving different types of service backbone
H	04	W	36	305	Reselection due to radio link failure control signalling for hand-off failure H04W36/0079
H	05	K	13	0215	Interconnecting of containers, e.g. splicing of tapes
H	05	K	13	0406	Drive mechanisms for pick-and-place heads, e.g. details relating to power transmission, motors or vibration damping
H	05	K	13	0409	Sucking devices
H	05	K	13	041	having multiple pick-up tools
H	05	K	13	0411	having multiple mounting heads
H	05	K	13	0419	tape feeders
H	05	K	13	081	Integration of optical monitoring devices in assembly lines; Processes using optical monitoring devices specially adapted for controlling devices or machines in assembly lines
H	05	K	13	0812	the monitoring devices being integrated in the mounting machine, e.g. for monitoring components, leads, component placement
H	05	K	13	0813	Controlling of single components prior to mounting, e.g. orientation, component geometry H05K13/0812 takes precedence
H	05	K	13	0815	Controlling of component placement on the substrate during or after manufacturing
H	05	K	13	0817	Monitoring of soldering processes inspection of solder joints or of printed solder paste G01N21/95684
H	05	K	13	0818	Setup of monitoring devices prior to starting mounting operations; Teaching of monitoring devices for specific products; Compensation of drifts during operation, e.g. due to temperature shifts
H	05	K	13	082	Integration of non-optical monitoring devices, i.e. using non-optical inspection means, e.g. electrical means, mechanical means or X-rays
H	05	K	13	083	Quality monitoring using results from monitoring devices, e.g. feedback loops H05K13/084 takes precedence
H	05	K	13	084	Product tracking, e.g. of substrates during the manufacturing process; Component traceability
H	05	K	13	085	Production planning, e.g. of allocation of products to machines, of mounting sequences at machine or facility level
H	05	K	13	0853	Determination of transport trajectories inside mounting machines
H	05	K	13	0857	Product-specific machine setup; Changeover of machines or assembly lines to new product type
H	05	K	13	086	Supply management, e.g. supply of components or of substrates
H	05	K	13	087	Equipment tracking or labelling, e.g. tracking of nozzles, feeders or mounting heads
H	05	K	13	0882	Control systems for mounting machines or assembly lines, e.g. centralized control, remote links, programming of apparatus and processes as such H05K13/083 takes precedence
H	05	K	13	0885	Power supply
H	05	K	13	0888	Ergonomics; Operator safety; Training; Failsafe systems
H	05	K	13	089	Calibration, teaching or correction of mechanical systems, e.g. of the mounting head
H	05	K	13	0895	Maintenance systems or processes, e.g. indicating need for maintenance
Y	02	B	30	125	combined with the use of heat accumulated in storage masses
Y	02	B	30	13	Hot air central heating systems using heat pumps
Y	02	B	30	17	District heating
Y	02	E	40	725	the energy generation units being or involving renewable energy sources

Y	02	T	50	55	Solar cells as on-board power source
Y	02	T	50	6765	Enabling an increased combustion temperature by thermal barrier coatings
Y	02	T	90	50	Computer aided design [CAD] for improving the mechanical performance in the sector of transportation, e.g. improvement of aerodynamics, noise or vibration reduction, tyre design
Y	04	S	10	542	Planning, load or production forecast
Y	04	S	10	547	Maintenance, construction or extension
Y	04	S	40	18	Network protocols supporting networked applications, e.g. including control of end-device applications over a network
Y	04	S	50	16	Energy services, e.g. dispersed generation or demand or load or energy savings aggregation

new IPC					**TEXT**
A	41	D	31	04	characterised by special function or use
A	41	D	31	06	Thermally protective, e.g. insulating
A	41	D	31	08	Heat resistant; Fire retardant
A	41	D	31	10	Impermeable to liquids, e.g. waterproof; Liquid repellent
A	41	D	31	102	Waterproof and breathable
A	41	D	31	12	Hygroscopic; Water retaining
A	41	D	31	14	Air permeable, i.e. capable of being penetrated by gases (waterproof and breathable A41D 31/102)
A	41	D	31	18	Elastic
A	41	D	31	24	Resistant to mechanical stress, e.g. pierce-proof
A	41	D	31	26	Electrically protective, e.g. preventing static electricity or electric shock
A	41	D	31	28	Shock absorbing
A	41	D	31	30	Antimicrobial, e.g. antibacterial
A	41	D	31	32	Retroreflective
A	61	K	33	241	Lead; Compounds thereof
A	61	K	33	242	Gold; Compounds thereof
A	61	K	33	243	Platinum; Compounds thereof
A	61	K	33	244	Lanthanides; Compounds thereof (medicinal preparations containing radioactive lanthanides for use in therapy or testing A61K 51/00)
A	61	K	33	245	Bismuth; Compounds thereof
A	61	K	38	095	Oxytocins; Vasopressins; Related peptides
B	29	C	48	00	Extrusion moulding, i.e. expressing the moulding material through a die or nozzle which imparts the desired form; Apparatus therefor (extrusion blow-moulding B29C 49/04)
B	29	C	48	02	Small extruding apparatus, e.g. handheld, toy or laboratory extruders
B	29	C	48	025	General arrangement or layout of plant
B	29	C	48	03	characterised by the shape of the extruded material at extrusion
B	29	C	48	04	Particle-shaped (making granules B29B 9/00)
B	29	C	48	05	Filamentary, e.g. strands
B	29	C	48	06	Rod-shaped
B	29	C	48	07	Flat, e.g. panels
B	29	C	48	08	flexible, e.g. films
B	29	C	48	09	Articles with cross-sections having partially or fully enclosed cavities, e.g. pipes or channels
B	29	C	48	10	flexible, e.g. blown foils

					comprising two or more partially or fully enclosed cavities, e.g. honeycomb-shaped
B	29	C	48	11	Articles with an irregular circumference when viewed in cross-section, e.g. window profiles
B	29	C	48	12	Articles with a cross-section varying in the longitudinal direction, e.g. corrugated pipes
B	29	C	48	13	characterised by the particular extruding conditions, e.g. in a modified atmosphere or by using vibration
B	29	C	48	14	incorporating preformed parts or layers, e.g. extrusion moulding around inserts
B	29	C	48	15	Coating hollow articles
B	29	C	48	151	the inner surfaces thereof
B	29	C	48	152	Coating both inner and outer surfaces
B	29	C	48	153	Coating solid articles, i.e. non-hollow articles
B	29	C	48	154	Partial coating thereof
B	29	C	48	155	Coating two or more articles simultaneously
B	29	C	48	156	Coating linked inserts, e.g. chains
B	29	C	48	157	Articles comprising two or more components, e.g. co-extruded layers
B	29	C	48	16	the components having different colours
B	29	C	48	17	the components being layers
B	29	C	48	18	the layers being joined at their edges
B	29	C	48	19	one of the layers being a strip, e.g. a partially embedded strip
B	29	C	48	20	the layers being joined at their surfaces
B	29	C	48	21	with means connecting the layers, e.g. tie layers or undercuts
B	29	C	48	22	with means for avoiding adhesion of the layers, e.g. for forming peelable layers
B	29	C	48	23	Component parts, details or accessories; Auxiliary operations
B	29	C	48	25	Flow control means, e.g. valves (flow dividers B29C 48/695)
B	29	C	48	255	Support structures or bases for apparatus, e.g. frames
B	29	C	48	265	Cleaning; Purging; Avoiding contamination
B	29	C	48	27	Recovery or reuse of energy or materials
B	29	C	48	275	Storing of extruded material, e.g. by winding up or stacking
B	29	C	48	28	Feeding the extrusion material to the extruder
B	29	C	48	285	in liquid form
B	29	C	48	29	in gaseous form
B	29	C	48	295	Extrusion nozzles or dies (extrusion characterised by the shape or cross-section of the extruded article B29C 48/03)
B	29	C	48	30	having a wide opening, e.g. for forming sheets
B	29	C	48	305	adjustable
B	29	C	48	31	with parts oscillating relative to each other
B	29	C	48	315	with annular openings, e.g. for forming tubular articles
B	29	C	48	32	adjustable
B	29	C	48	325	with parts rotatable relative to each other
B	29	C	48	33	Multiple annular extrusion nozzles in coaxial arrangement, e.g. for making multi-layered tubular articles
B	29	C	48	335	Cross-head annular extrusion nozzles, i.e. for simultaneously receiving moulding material and the preform to be coated
B	29	C	48	34	Extrusion nozzles comprising two or more adjacently arranged ports, for simultaneously extruding multiple strands, e.g. for pelletising
B	29	C	48	345	with rollers
B	29	C	48	35	

B	29	C	48	355	Conveyors for extruded articles
B	29	C	48	36	Means for plasticising or homogenising the moulding material or forcing it through the nozzle or die
B	29	C	48	365	using pumps, e.g. piston pumps
B	29	C	48	37	Gear pumps
B	29	C	48	375	Plasticisers, homogenisers or feeders comprising two or more stages
B	29	C	48	38	using two or more serially arranged screws in the same barrel
B	29	C	48	385	using two or more serially arranged screws in separate barrels
B	29	C	48	39	a first extruder feeding the melt into an intermediate location of a second extruder
B	29	C	48	395	using screws surrounded by a cooperating barrel, e.g. single screw extruders
B	29	C	48	40	using two or more parallel screws, e.g. twin screw extruders
B	29	C	48	405	Intermeshing co-rotating screws
B	29	C	48	41	Intermeshing counter-rotating screws
B	29	C	48	415	and having partially non-intermeshing screws
B	29	C	48	42	Non-identical or non-mirrored screws
B	29	C	48	425	using three or more screws (serially arranged screws B29C 48/38, B29C 48/385)
B	29	C	48	43	Ring extruders
B	29	C	48	435	Sub-screws
B	29	C	48	44	Planetary screws
B	29	C	48	445	Coaxially arranged screws, i.e. one within the other
B	29	C	48	45	Axially movable screws
B	29	C	48	455	Screws arranged to convey material towards each other, e.g. separate screws arranged after each other and feeding in opposite directions
B	29	C	48	46	using vanes
B	29	C	48	465	using rollers
B	29	C	48	47	using discs, e.g. plasticising the moulding material by passing it between a fixed and a rotating disc that are coaxially arranged
B	29	C	48	475	using pistons, accumulators or press rams
B	29	C	48	48	Two or more rams or pistons
B	29	C	48	485	Hydrostatic extrusion
B	29	C	48	49	using two or more extruders to feed one die or nozzle
B	29	C	48	495	Feedblocks (extrusion moulding of multi-component articles B29C 48/16)
B	29	C	48	50	Details of extruders
B	29	C	48	505	Screws
B	29	C	48	51	with internal flow passages, e.g. for molten material
B	29	C	48	515	for auxiliary fluids, e.g. foaming agents
B	29	C	48	52	with an outer diameter varying along the longitudinal axis, e.g. for obtaining different thread clearance
B	29	C	48	525	Conical screws
B	29	C	48	53	having a varying channel depth, e.g. varying the diameter of the longitudinal screw trunk
B	29	C	48	535	with thread pitch varying along the longitudinal axis
B	29	C	48	54	with additional forward-feeding elements
B	29	C	48	55	having reverse-feeding elements
B	29	C	48	56	having grooves or cavities other than the thread or the channel
B	29	C	48	565	having projections other than the thread, e.g. pins
B	29	C	48	57	provided with kneading disc-like elements, e.g. with oval-shaped elements

					provided with elements of a generally circular cross-section for shearing the
B	29	C	48	575	melt, i.e. shear-ring elements
					provided with seal ring elements, i.e. elements of generally circular and
B	29	C	48	58	tapered shape for preventing the back flow of the melt
B	29	C	48	585	provided with gears interacting with the flow
					characterised by details of the thread, i.e. the shape of a single thread of the
B	29	C	48	59	material-feeding screw
B	29	C	48	595	the thread having non-uniform width
B	29	C	48	60	Thread tops
B	29	C	48	605	the thread being discontinuous
B	29	C	48	61	Threads having wavy profiles
B	29	C	48	615	Threads having varying helix angles
B	29	C	48	62	characterised by the shape of the thread channel, e.g. U-shaped
					characterised by the ratio of the threaded length of the screw to its outside
B	29	C	48	625	diameter [L/D ratio]
					having sections without mixing elements or threads, i.e. having cylinder
B	29	C	48	63	shaped sections
					Eccentrically rotating screws; Screws revolving around an axis other than their
B	29	C	48	635	central axis
B	29	C	48	64	Screws with two or more threads
B	29	C	48	645	neighbouring threads and channels having identical configurations
					neighbouring threads or channels having different configurations, e.g. one
B	29	C	48	65	thread being lower than its neighbouring thread
B	29	C	48	655	having three or more threads
					Barrier threads, i.e. comprising primary and secondary threads whereby the
B	29	C	48	66	secondary thread provides clearance to the barrel for material movement
B	29	C	48	67	having incorporated mixing devices not provided for in groups
B	29	C	48	68	Barrels or cylinders
					characterised by their inner surfaces, e.g. having grooves, projections or
B	29	C	48	685	threads
B	29	C	48	69	Filters or screens for the moulding material
B	29	C	48	691	Arrangements for replacing filters, e.g. with two parallel filters for alternate use
B	29	C	48	692	in the form of webs displaceable for using adjacent areas consecutively
					Substantially flat filters mounted at the end of an extruder screw perpendicular
B	29	C	48	693	to the feed axis
B	29	C	48	694	Cylindrical or conical filters
B	29	C	48	695	Flow dividers, e.g. breaker plates
B	29	C	48	70	comprising means for dividing, distributing and recombining melt flows
B	29	C	48	71	for layer multiplication (extrusion of multi-component articles B29C 48/16)
					Feedback means, i.e. part of the molten material being fed back into upstream
B	29	C	48	72	stages of the extruder
					Bypassing means, i.e. part of the molten material being diverted into
B	29	C	48	74	downstream stages of the extruder
B	29	C	48	76	Venting means; Degassing means
					Thermal treatment of the extrusion moulding material or of preformed parts or
B	29	C	48	78	layers, e.g. by heating or cooling
B	29	C	48	79	of preformed parts or layers
B	29	C	48	793	upstream of the plasticising zone, e.g. heating in the hopper

B	29	C	48	797	Cooling
B	29	C	48	80	at the plasticising zone, e.g. by heating cylinders
B	29	C	48	82	Cooling (B29C 48/84 takes precedence)
B	29	C	48	84	by heating or cooling the feeding screws (for hollow screws B29C 48/515)
B	29	C	48	85	Cooling
B	29	C	48	86	at the nozzle zone
B	29	C	48	87	Cooling
B	29	C	48	875	for achieving a non-uniform temperature distribution, e.g. using barrels having both cooling and heating zones
B	29	C	48	88	Thermal treatment of the stream of extruded material, e.g. cooling
B	29	C	48	885	External treatment, e.g. by using air rings for cooling tubular films
B	29	C	48	89	Internal treatment, e.g. by applying an internal cooling fluid stream
B	29	C	48	90	with calibration or sizing, i.e. combined with fixing or setting of the final dimensions of the extruded article
B	29	C	48	91	Heating, e.g. for cross linking
B	29	C	48	92	Measuring, controlling or regulating
B	29	C	48	94	Lubricating
B	29	C	48	95	by adding lubricant to the moulding material
B	29	C	48	96	Safety devices
B	32	B	7	022	Mechanical properties
B	32	B	7	023	Optical properties
B	32	B	7	025	Electric or magnetic properties
B	32	B	7	027	Thermal properties
B	32	B	7	028	Heat-shrinkability
B	32	B	7	03	with respect to the orientation of features (direction of fibres or filaments B32B 5/12)
B	32	B	7	035	using arrangements of stretched films, e.g. of mono-axially stretched films arranged alternately
B	32	B	7	05	the layers not being connected over the whole surface, e.g. discontinuous connection or patterned connection (using interposed adhesives or bonding materials applied in spaced arrangements B32B 7/14)
B	32	B	7	09	by stitching, needling or sewing (by needling fibrous layers B32B 5/06)
B	60	L	50	00	Electric propulsion with power supplied within the vehicle (with power supply from forces of nature, e.g. sun or wind, B60L 8/00; for monorail vehicles, suspension vehicles or rack railways B60L 13/00)
B	60	L	50	10	using propulsion power supplied by engine-driven generators, e.g. generators driven by combustion engines
B	60	L	50	11	using DC generators and DC motors
B	60	L	50	12	using AC generators and DC motors
B	60	L	50	13	using AC generators and AC motors
B	60	L	50	14	using DC generators and AC motors
B	60	L	50	15	with additional electric power supply (with capacitors charged by engine-driven generators B60L 50/40; with batteries charged by engine-driven generators B60L 50/61)
B	60	L	50	16	with provision for separate direct mechanical propulsion
B	60	L	50	20	using propulsion power generated by humans or animals
B	60	L	50	30	using propulsion power stored mechanically, e.g. in fly-wheels
B	60	L	50	40	using propulsion power supplied by capacitors
B	60	L	50	50	using propulsion power supplied by batteries or fuel cells
B	60	L	50	51	characterised by AC-motors

B	60	L	50	52	characterised by DC-motors
B	60	L	50	53	in combination with an external power supply, e.g. from overhead contact lines
B	60	L	50	60	using power supplied by batteries (in combination with fuel cells B60L 50/75)
B	60	L	50	61	by batteries charged by engine-driven generators, e.g. series hybrid electric vehicles
B	60	L	50	62	charged by low-power generators primarily intended to support the batteries, e.g. range extenders
B	60	L	50	64	Constructional details of batteries specially adapted for electric vehicles
B	60	L	50	70	using power supplied by fuel cells (in combination with batteries B60L 50/75)
B	60	L	50	71	Arrangement of fuel cells within vehicles specially adapted for electric vehicles
B	60	L	50	72	Constructional details of fuel cells specially adapted for electric vehicles
B	60	L	50	75	using propulsion power supplied by both fuel cells and batteries
B	60	L	50	90	using propulsion power supplied by specific means not covered by groups , e.g. by direct conversion of thermal nuclear energy into electricity
B	60	L	53	00	Methods of charging batteries, specially adapted for electric vehicles; Charging stations or on-board charging equipment therefor; Exchange of energy storage elements in electric vehicles
B	60	L	53	10	characterised by the energy transfer between the charging station and the vehicle
B	60	L	53	12	Inductive energy transfer
B	60	L	53	122	Circuits or methods for driving the primary coil, i.e. supplying electric power to the coil
B	60	L	53	124	Detection or removal of foreign bodies
B	60	L	53	126	Methods for pairing a vehicle and a charging station, e.g. establishing a one-to-one relation between a wireless power transmitter and a wireless power receiver
B	60	L	53	14	Conductive energy transfer
B	60	L	53	16	Connectors, e.g. plugs or sockets, specially adapted for charging electric vehicles
B	60	L	53	18	Cables specially adapted for charging electric vehicles
B	60	L	53	20	characterised by converters located in the vehicle
B	60	L	53	22	Constructional details or arrangements of charging converters specially adapted for charging electric vehicles
B	60	L	53	24	Using the vehicle's propulsion converter for charging
B	60	L	53	30	Constructional details of charging stations
B	60	L	53	302	Cooling of charging equipment
B	60	L	53	31	Charging columns specially adapted for electric vehicles
B	60	L	53	34	Plug-like or socket-like devices specially adapted for contactless inductive charging of electric vehicles (positioning means for charging devices using inductive energy transfer B60L 53/38)
B	60	L	53	35	Means for automatically adjusting the relative position of charging devices and vehicles
B	60	L	53	36	by positioning the vehicle
B	60	L	53	37	using optical position determination, e.g. using cameras
B	60	L	53	38	specially adapted for charging by inductive energy transfer
B	60	L	53	39	with position-responsive activation of primary coils

B	60	L	53	50	Charging stations characterised by energy-storage or power-generation means
B	60	L	53	51	Photovoltaic means
B	60	L	53	52	Wind-driven generators
B	60	L	53	53	Batteries
B	60	L	53	54	Fuel cells
B	60	L	53	55	Capacitors
B	60	L	53	56	Mechanical storage means, e.g. fly wheels
B	60	L	53	57	Charging stations without connection to power networks
B	60	L	53	60	Monitoring or controlling charging stations
B	60	L	53	62	in response to charging parameters, e.g. current, voltage or electrical charge
B	60	L	53	63	in response to network capacity
B	60	L	53	64	Optimising energy costs, e.g. responding to electricity rates
B	60	L	53	65	involving identification of vehicles
B	60	L	53	66	Data transfer between charging stations and vehicles
B	60	L	53	67	Controlling two or more charging stations
B	60	L	53	68	Off-site monitoring or control, e.g. remote control
B	60	L	53	80	Exchanging energy storage elements, e.g. removable batteries
B	60	L	55	00	Arrangements for supplying energy stored within a vehicle to a power network, i.e. vehicle-to-grid [V2G] arrangements
B	60	L	58	00	Methods or circuit arrangements for monitoring or controlling batteries or fuel cells, specially adapted for electric vehicles
B	60	L	58	10	for monitoring or controlling batteries
B	60	L	58	12	responding to state of charge [SoC]
B	60	L	58	13	Maintaining the SoC within a determined range
B	60	L	58	14	Preventing excessive discharging
B	60	L	58	15	Preventing overcharging
B	60	L	58	16	responding to battery ageing, e.g. to the number of charging cycles or the state of health [SoH]
B	60	L	58	18	of two or more battery modules
B	60	L	58	19	Switching between serial connection and parallel connection of battery modules
B	60	L	58	20	having different nominal voltages
B	60	L	58	21	having the same nominal voltage
B	60	L	58	22	Balancing the charge of battery modules
B	60	L	58	24	for controlling the temperature of batteries
B	60	L	58	25	by controlling the electric load
B	60	L	58	26	by cooling
B	60	L	58	27	by heating
B	60	L	58	30	for monitoring or controlling fuel cells
B	60	L	58	31	for starting of fuel cells
B	60	L	58	32	for controlling the temperature of fuel cells, e.g. by controlling the electric load
B	60	L	58	33	by cooling
B	60	L	58	34	by heating
B	60	L	58	40	for controlling a combination of batteries and fuel cells
B	65	D	90	501	comprising hollow spaces within walls
B	65	D	90	503	under pressure or vacuum
B	65	D	90	505	comprising porous spaces or porous layers in walls

B	65	D	90	507	under pressure or vacuum
B	65	D	90	51	characterised by sensors
B	65	D	90	511	Float-type indicators
B	65	D	90	513	comprising electrically conductive layers in walls
C	02	F	11	121	by mechanical de-watering
C	02	F	11	122	using filter presses (C02F 11/123 takes precedence)
C	02	F	11	123	using belt or band filters
C	02	F	11	125	using screw filters
C	02	F	11	126	using drum filters
C	02	F	11	127	by centrifugation
C	02	F	11	128	using batch processes
C	02	F	11	13	by heating
C	02	F	11	131	using electromagnetic or ultrasonic waves
C	02	F	11	143	using inorganic substances (C02F 11/148 takes precedence)
C	02	F	11	145	using calcium compounds
C	02	F	11	147	using organic substances (C02F 11/148 takes precedence)
C	02	F	11	148	Combined use of inorganic and organic substances, being added in the same treatment step
C	02	F	11	15	by treatment with electric, magnetic or electromagnetic fields; by treatment with ultrasonic waves (for the purpose of heating C02F 11/131)
C	12	G	1	14	Preparation of wine or sparkling wine with low alcohol content (methods for reducing the alcohol content after fermentation C12H 3/00)
C	12	G	3	005	Solid or pasty alcoholic beverage-forming compositions
C	12	G	3	021	of botanical family Poaceae, e.g. wheat, millet, sorghum, barley, rye or corn
C	12	G	3	022	of botanical genus Oryza, e.g. rice
C	12	G	3	023	of botanical family Solanaceae, e.g. potato
C	12	G	3	024	of fruits other than botanical genus Vitis
C	12	G	3	025	Low-alcohol beverages (methods for reducing the alcohol content after fermentation C12H 3/00)
C	12	G	3	026	with health-improving ingredients, e.g. flavonoids, flavones, polyphenols or polysaccharides, added before or during the fermentation stage; with flavouring ingredients added before or during the fermentation stage
C	12	G	3	05	with health-improving ingredients, e.g. flavonoids, flavones, polyphenols or polysaccharides
C	12	G	3	055	extracted from plants
C	12	H	6	00	Methods for increasing the alcohol content of fermented solutions or alcoholic beverages
C	12	H	6	02	by distillation
C	12	H	6	04	by freezing
F	02	M	37	24	characterised by water separating means
F	02	M	37	26	with water detection means
F	02	M	37	28	with means activated by the presence of water, e.g. alarms or means for automatic drainage
F	02	M	37	30	characterised by heating means
F	02	M	37	32	characterised by filters or filter arrangements
F	02	M	37	34	by the filter structure, e.g. honeycomb, mesh or fibrous
F	02	M	37	36	with bypass means
F	02	M	37	38	with regeneration means
F	02	M	37	40	with means for detection of clogging

F	02	M	37	42	Installation or removal of filters
F	02	M	37	44	Filters structurally associated with pumps
F	02	M	37	46	Filters structurally associated with pressure regulators
F	02	M	37	48	Filters structurally associated with fuel valves
F	02	M	37	50	Filters arranged in or on fuel tanks
F	02	M	37	52	using magnetic means
F	02	M	37	54	characterised by air purging means (having priming pumps F02M 37/16)
F	15	B	21	041	Removal or measurement of solid or liquid contamination, e.g. filtering
F	15	B	21	042	Controlling the temperature of the fluid
F	15	B	21	0423	Cooling
F	15	B	21	0427	Heating
F	15	B	21	044	Removal or measurement of undissolved gas, e.g. de-aeration, venting or bleeding
F	15	B	21	045	Compensating for variations in viscosity or temperature
F	15	B	21	047	Preventing foaming, churning or cavitation
F	15	B	21	048	Arrangements for compressed air preparation, e.g. comprising air driers, air condensers, filters, lubricators or pressure regulators
F	24	F	1	0003	characterised by a split arrangement, wherein parts of the air-conditioning system, e.g. evaporator and condenser, are in separately located units
F	24	F	1	0007	Indoor units, e.g. fan coil units (self-contained units F24F 1/02)
F	24	F	1	0011	characterised by air outlets
F	24	F	1	0014	having two or more outlet openings
F	24	F	1	0018	characterised by fans (with secondary air induced by injector action of the primary air F24F 1/01)
F	24	F	1	0022	Centrifugal or radial fans
F	24	F	1	0025	Cross-flow or tangential fans
F	24	F	1	0029	Axial fans
F	24	F	1	0033	having two or more fans
F	24	F	1	0035	characterised by introduction of outside air to the room
F	24	F	1	0038	in combination with simultaneous exhaustion of inside air
F	24	F	1	0041	characterised by exhaustion of inside air from the room (in combination with simultaneous introduction of outside air F24F 1/0038)
F	24	F	1	0043	characterised by mounting arrangements
F	24	F	1	0047	mounted in the ceiling or at the ceiling
F	24	F	1	005	mounted on the floor; standing on the floor
F	24	F	1	0053	mounted at least partially below the floor; with air distribution below the floor
F	24	F	1	0057	mounted in or on a wall
F	24	F	1	0059	characterised by heat exchangers
F	24	F	1	0063	by the mounting or arrangement of the heat exchangers
F	24	F	1	0067	by the shape of the heat exchangers or of parts thereof, e.g. of their fins
F	24	F	1	0068	characterised by the arrangement of refrigerant piping outside the heat exchanger within the unit casing
F	24	F	1	0071	with means for purifying supplied air (perfuming or deodorising means F24F 1/008)
F	24	F	1	0073	characterised by the mounting or arrangement of filters
F	24	F	1	0076	by electric means, e.g. ionisers or electrostatic separators
F	24	F	1	008	with perfuming or deodorising means
F	24	F	1	0083	with dehumidification means
F	24	F	1	0087	with humidification means

					characterised by heating arrangements (characterised by heat exchangers
F	24	F	1	009	F24F 1/0059)
F	24	F	1	0093	with additional radiant heat-discharging elements, e.g. electric heaters
F	24	F	1	0097	using thermoelectric or thermomagnetic means, e.g. Peltier elements
F	24	F	1	022	comprising a compressor cycle
F	24	F	1	027	mounted in wall openings, e.g. in windows
					characterised by air supply means, e.g. fan casings, internal dampers or ducts
F	24	F	1	028	(with secondary air induced by injector action of the primary air F24F 1/01)
F	24	F	1	0284	with horizontally arranged fan axis
F	24	F	1	0287	with vertically arranged fan axis
					characterised by the layout or mutual arrangement of components, e.g. of
F	24	F	1	029	compressors or fans
F	24	F	1	03	characterised by mounting arrangements
F	24	F	1	031	penetrating a wall or window
F	24	F	1	0314	mounted on a wall
F	24	F	1	0317	suspended from the ceiling
F	24	F	1	032	characterised by heat exchangers
F	24	F	1	0323	by the mounting or arrangement of the heat exchangers
F	24	F	1	0325	by the shape of the heat exchangers or of parts thereof, e.g. of their fins
					characterised by the arrangement of refrigerant piping outside the heat
F	24	F	1	0326	exchanger within the unit casing
					with means for purifying supplied air (perfuming or deodorising means F24F
F	24	F	1	0328	1/0355)
F	24	F	1	035	characterised by the mounting or arrangement of filters
F	24	F	1	0353	by electric means, e.g. ionisers or electrostatic separators
F	24	F	1	0355	with perfuming or deodorising means
F	24	F	1	0358	with dehumidification means
F	24	F	1	037	with humidification means
					characterised by heating arrangements (characterised by heat exchangers
F	24	F	1	0373	F24F 1/032)
F	24	F	1	0375	with additional radiant heat-discharging elements, e.g. electric heaters
F	24	F	1	0378	using thermoelectric or thermomagnetic means, e.g. Peltier elements
F	24	F	1	039	using water to enhance cooling, e.g. spraying onto condensers
G	01	M	13	003	Machine valves (testing valves for fluid tightness G01M 3/00)
G	01	M	13	005	Sealing rings
G	01	M	13	021	Gearings
G	01	M	13	022	Power-transmitting couplings or clutches
G	01	M	13	023	Power-transmitting endless elements, e.g. belts or chains
					Test-benches with rotational drive means and loading means; Load or drive
G	01	M	13	025	simulation
					Test-benches of the mechanical closed-loop type, i.e. having a gear system
G	01	M	13	026	constituting a closed-loop in combination with the object under test
					Test-benches with force-applying means, e.g. loading of drive shafts along
G	01	M	13	027	several directions
G	01	M	13	028	Acoustic or vibration analysis
G	01	M	13	045	Acoustic or vibration analysis
G	01	N	33	202	Constituents thereof
G	01	N	33	2022	Non-metallic constituents

G	01	N	33	2025	Gaseous constituents
G	01	N	33	2028	Metallic constituents
G	01	N	33	204	Structure thereof, e.g. crystal structure
G	01	N	33	2045	Defects
G	01	N	33	205	in liquid state, e.g. molten metals
G	01	N	33	207	Welded or soldered joints; Solderability
G	01	N	33	208	Coatings, e.g. platings
G	01	R	31	364	Battery terminal connectors with integrated measuring arrangements
G	01	R	31	367	Software therefor, e.g. for battery testing using modelling or look-up tables
G	01	R	31	371	with remote indication, e.g. on external chargers
G	01	R	31	374	with means for correcting the measurement for temperature or ageing
G	01	R	31	378	specially adapted for the type of battery or accumulator
G	01	R	31	379	for lead-acid batteries
G	01	R	31	382	Arrangements for monitoring battery or accumulator variables, e.g. SoC
G	01	R	31	3828	using current integration
G	01	R	31	3832	without measurement of battery voltage
G	01	R	31	3835	involving only voltage measurements
G	01	R	31	3842	combining voltage and current measurements
G	01	R	31	385	Arrangements for measuring battery or accumulator variables (for monitoring G01R 31/382)
G	01	R	31	387	Determining ampere-hour charge capacity or SoC
G	01	R	31	388	involving voltage measurements
G	01	R	31	389	Measuring internal impedance, internal conductance or related variables
G	01	R	31	392	Determining battery ageing or deterioration, e.g. state of health
G	01	R	31	396	Acquisition or processing of data for testing or for monitoring individual cells or groups of cells within a battery
G	02	F	1	1503	caused by oxidation-reduction reactions in organic liquid solutions, e.g. viologen solutions
G	02	F	1	1506	based on electrodeposition, e.g. electrolytic deposition of an inorganic material on or close to an electrode
G	02	F	1	1514	characterised by the electrochromic material, e.g. by the electrodeposited material
G	02	F	1	1516	comprising organic material
G	02	F	1	1523	comprising inorganic material
G	02	F	1	1524	Transition metal compounds
G	02	F	1	165	based on translational movement of particles in a fluid under the influence of an applied field
G	02	F	1	166	characterised by the electro-optical or magneto-optical effect
G	02	F	1	1671	involving dry toners
G	02	F	1	1673	by magnetophoresis
G	02	F	1	1675	Constructional details
G	02	F	1	16753	Structures for supporting or mounting cells, e.g. frames or bezels
G	02	F	1	16755	Substrates
G	02	F	1	16756	Insulating layers
G	02	F	1	16757	Microcapsules
G	02	F	1	1676	Electrodes
G	02	F	1	16761	Side-by-side arrangement of working electrodes and counter-electrodes
G	02	F	1	16762	having three or more electrodes per pixel
G	02	F	1	16766	for active matrices

G	02	F	1	1677	Structural association of cells with optical devices, e.g. reflectors or illuminating devices
G	02	F	1	1679	Gaskets; Spacers; Sealing of cells; Filling or closing of cells
G	02	F	1	1681	having two or more microcells partitioned by walls, e.g. of microcup type
G	02	F	1	1685	Operation of cells; Circuit arrangements affecting the entire cell
G	02	F	1	169	based on orientable non-spherical particles having a common optical characteristic, e.g. suspended particles of reflective metal flakes
G	06	F	1	3203	Power management, i.e. event-based initiation of a power-saving mode
G	06	F	1	3206	Monitoring of events, devices or parameters that trigger a change in power modality
G	06	F	1	3209	Monitoring remote activity, e.g. over telephone lines or network connections
G	06	F	1	3212	Monitoring battery levels, e.g. power saving mode being initiated when battery voltage goes below a certain level
G	06	F	1	3215	Monitoring of peripheral devices
G	06	F	1	3218	of display devices
G	06	F	1	3221	of disk drive devices
G	06	F	1	3225	of memory devices
G	06	F	1	3228	Monitoring task completion, e.g. by use of idle timers, stop commands or wait commands
G	06	F	1	3231	Monitoring the presence, absence or movement of users
G	06	F	1	3234	Power saving characterised by the action undertaken
G	06	F	1	3237	by disabling clock generation or distribution
G	06	F	1	324	by lowering clock frequency
G	06	F	1	3246	by software initiated power-off
G	06	F	1	3287	by switching off individual functional units in the computer system
G	06	F	1	329	by task scheduling
G	06	F	1	3293	by switching to a less power-consuming processor, e.g. sub-CPU
G	06	F	1	3296	by lowering the supply or operating voltage
G	06	F	16	00	Information retrieval; Database structures therefor; File system structures therefor
G	06	F	16	10	File systems; File servers
G	06	F	16	11	File system administration, e.g. details of archiving or snapshots (file system backup G06F 11/14)
G	06	F	16	13	File access structures, e.g. distributed indices (arrangements of input from, or output to, record carriers G06F 3/06)
G	06	F	16	14	Details of searching files based on file metadata
G	06	F	16	16	File or folder operations, e.g. details of user interfaces specifically adapted to file systems
G	06	F	16	17	Details of further file system functions
G	06	F	16	172	Caching, prefetching or hoarding of files
G	06	F	16	174	Redundancy elimination performed by the file system (management of the data involved in backup or backup restore using de-duplication of the data G06F 11/14)
G	06	F	16	176	Support for shared access to files; File sharing support
G	06	F	16	178	Techniques for file synchronisation in file systems
G	06	F	16	18	File system types
G	06	F	16	182	Distributed file systems
G	06	F	16	185	Hierarchical storage management [HSM] systems, e.g. file migration or policies thereof (details of archiving G06F 16/11)

G	06	F	16	188	Virtual file systems
G	06	F	16	20	of structured data, e.g. relational data
G	06	F	16	21	Design, administration or maintenance of databases
G	06	F	16	215	Improving data quality; Data cleansing, e.g. de-duplication, removing invalid entries or correcting typographical errors
G	06	F	16	22	Indexing; Data structures therefor; Storage structures
G	06	F	16	23	Updating
G	06	F	16	24	Querying
G	06	F	16	242	Query formulation
G	06	F	16	245	Query processing
G	06	F	16	2452	Query translation
G	06	F	16	2453	Query optimisation
G	06	F	16	2455	Query execution
G	06	F	16	2457	with adaptation to user needs
G	06	F	16	2458	Special types of queries, e.g. statistical queries, fuzzy queries or distributed queries
G	06	F	16	248	Presentation of query results
G	06	F	16	25	Integrating or interfacing systems involving database management systems
G	06	F	16	26	Visual data mining; Browsing structured data
G	06	F	16	27	Replication, distribution or synchronisation of data between databases or within a distributed database system; Distributed database system architectures therefor
G	06	F	16	28	Databases characterised by their database models, e.g. relational or object models
G	06	F	16	29	Geographical information databases
G	06	F	16	30	of unstructured textual data (document management systems G06F 16/93)
G	06	F	16	31	Indexing; Data structures therefor; Storage structures
G	06	F	16	33	Querying
G	06	F	16	332	Query formulation
G	06	F	16	335	Filtering based on additional data, e.g. user or group profiles (filtering in web context G06F 16/9535, G06F 16/9536)
G	06	F	16	338	Presentation of query results
G	06	F	16	34	Browsing; Visualisation therefor
G	06	F	16	35	Clustering; Classification
G	06	F	16	36	Creation of semantic tools, e.g. ontology or thesauri
G	06	F	16	38	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	383	using metadata automatically derived from the content
G	06	F	16	387	using geographical or spatial information, e.g. location
G	06	F	16	40	of multimedia data, e.g. slideshows comprising image and additional audio data (retrieval of still image data G06F 16/50; retrieval of audio data G06F 16/60; retrieval of video data G06F 16/70)
G	06	F	16	41	Indexing; Data structures therefor; Storage structures
G	06	F	16	43	Querying
G	06	F	16	432	Query formulation
G	06	F	16	435	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	438	Presentation of query results
G	06	F	16	44	Browsing; Visualisation therefor

G	06	F	16	45	Clustering; Classification
G	06	F	16	48	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	483	using metadata automatically derived from the content
G	06	F	16	487	using geographical or spatial information, e.g. location
G	06	F	16	50	of still image data
G	06	F	16	51	Indexing; Data structures therefor; Storage structures
G	06	F	16	53	Querying
G	06	F	16	532	Query formulation, e.g. graphical querying
G	06	F	16	535	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	538	Presentation of query results
G	06	F	16	54	Browsing; Visualisation therefor
G	06	F	16	55	Clustering; Classification
G	06	F	16	56	having vectorial format
G	06	F	16	58	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	583	using metadata automatically derived from the content
G	06	F	16	587	using geographical or spatial information, e.g. location
G	06	F	16	60	of audio data
G	06	F	16	61	Indexing; Data structures therefor; Storage structures
G	06	F	16	63	Querying
G	06	F	16	632	Query formulation
G	06	F	16	635	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	638	Presentation of query results
G	06	F	16	64	Browsing; Visualisation therefor (generation of a list or set of audio data G06F 16/638)
G	06	F	16	65	Clustering; Classification
G	06	F	16	68	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	683	using metadata automatically derived from the content
G	06	F	16	687	using geographical or spatial information, e.g. location
G	06	F	16	70	of video data
G	06	F	16	71	Indexing; Data structures therefor; Storage structures
G	06	F	16	73	Querying
G	06	F	16	732	Query formulation
G	06	F	16	735	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	738	Presentation of query results
G	06	F	16	74	Browsing; Visualisation therefor (end-user interfaces for requesting or interacting with video content, e.g. video on demand interfaces or electronic program guides, H04N 21/472)
G	06	F	16	75	Clustering; Classification
G	06	F	16	78	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	783	using metadata automatically derived from the content
G	06	F	16	787	using geographical or spatial information, e.g. location
G	06	F	16	80	of semi-structured data, e.g. markup language structured data such as SGML, XML or HTML (content-based retrieval of web data G06F 16/95)
G	06	F	16	81	Indexing, e.g. XML tags; Data structures therefor; Storage structures
G	06	F	16	83	Querying
G	06	F	16	832	Query formulation

G	06	F	16	835	Query processing
G	06	F	16	838	Presentation of query results
G	06	F	16	84	Mapping; Conversion
G	06	F	16	90	Details of database functions independent of the retrieved data types
G	06	F	16	901	Indexing; Data structures therefor; Storage structures (for retrieval from the web G06F 16/951)
G	06	F	16	903	Querying (for retrieval from the web G06F 16/953)
G	06	F	16	9032	Query formulation
G	06	F	16	9035	Filtering based on additional data, e.g. user or group profiles
G	06	F	16	9038	Presentation of query results
G	06	F	16	904	Browsing; Visualisation therefor (for navigating the web G06F 16/954; browsing optimisation for the web G06F 16/957)
G	06	F	16	906	Clustering; Classification
G	06	F	16	907	Retrieval characterised by using metadata, e.g. metadata not derived from the content or metadata generated manually
G	06	F	16	908	using metadata automatically derived from the content
G	06	F	16	909	using geographical or spatial information, e.g. location (spatial or temporal dependent retrieval from the web G06F 16/9537)
G	06	F	16	93	Document management systems
G	06	F	16	95	Retrieval from the web
G	06	F	16	951	Indexing; Web crawling techniques
G	06	F	16	953	Querying, e.g. by the use of web search engines
G	06	F	16	9532	Query formulation
G	06	F	16	9535	Search customisation based on user profiles and personalisation
G	06	F	16	9536	Search customisation based on social or collaborative filtering
G	06	F	16	9537	Spatial or temporal dependent retrieval, e.g. spatiotemporal queries
G	06	F	16	9538	Presentation of query results
G	06	F	16	954	Navigation, e.g. using categorised browsing
G	06	F	16	955	using information identifiers, e.g. uniform resource locators [URL]
G	06	F	16	957	Browsing optimisation, e.g. caching or content distillation
G	06	F	16	958	Organisation or management of web site content, e.g. publishing, maintaining pages or automatic linking
G	06	N	10	00	Quantum computers, i.e. computer systems based on quantum-mechanical phenomena
G	06	N	20	00	Machine learning
G	06	N	20	10	using kernel methods, e.g. support vector machines [SVM]
G	06	N	20	20	Ensemble learning
G	07	D	11	10	Mechanical details
G	07	D	11	12	Containers for valuable papers
G	07	D	11	125	Secure containers
G	07	D	11	13	with internal means for handling valuable papers
G	07	D	11	14	Inlet or outlet ports
G	07	D	11	16	Handling of valuable papers (within containers G07D 11/13)
G	07	D	11	165	Picking
G	07	D	11	17	Aligning
G	07	D	11	175	Flattening, e.g. straightening out folds
G	07	D	11	18	Diverting into different paths or containers
G	07	D	11	20	Controlling or monitoring the operation of devices; Data handling
G	07	D	11	22	Means for sensing or detection
G	07	D	11	225	for detecting or indicating tampering

G	07	D	11	23	for sensing the quantity of valuable papers in containers
G	07	D	11	235	for monitoring or indicating operating conditions; for detecting malfunctions
G	07	D	11	237	for detecting transport malfunctions, e.g. jams or misfeeds
G	07	D	11	24	Managing the stock of valuable papers
G	07	D	11	245	Replenishment
G	07	D	11	25	Relocation of valuable papers within devices
G	07	D	11	26	Servicing, repairing or coping with irregularities, e.g. power failure or vandalism
G	07	D	11	28	Setting of parameters; Software updates
G	07	D	11	30	Tracking or tracing valuable papers or cassettes
G	07	D	11	32	Record keeping (transaction aspects G07F 19/00)
G	07	D	11	34	Monitoring the contents of devices, e.g. the number of stored valuable papers
G	07	D	11	36	Auditing of activities
G	07	D	11	40	Device architecture, e.g. modular construction
G	07	D	11	50	Sorting or counting valuable papers
G	07	D	11	60	User-interface arrangements
G	10	B	3	24	Cases
G	10	C	3	07	Strings (resonant strings G10C 3/06)
G	10	C	3	103	the axis of the pins being parallel to the strings
G	10	C	3	106	the axis of the pins being perpendicular to the strings
G	10	C	3	161	specially adapted for upright pianos
G	10	C	3	163	the action being mounted in a plane below the keyboard
G	10	C	3	165	for plucking the strings
G	10	C	3	166	for damping the strings (G10C 3/26 takes precedence)
G	10	C	3	168	with hanging jacks, i.e. jacks connected to hammer-butts or hammer-shanks
G	10	C	3	23	with hammers mounted above the strings, striking downwards
G	10	C	5	10	Switching musical instruments to a keyboard, e.g. switching a piano mechanism or an electrophonic instrument to a keyboard; Switching musical instruments to a silent mode
G	16	B	-	-	BIOINFORMATICS, i.e. INFORMATION AND COMMUNICATION TECHNOLOGY [ICT] SPECIALLY ADAPTED FOR GENETIC OR PROTEIN-RELATED DATA PROCESSING IN COMPUTATIONAL MOLECULAR BIOLOGY
G	16	B	10	00	ICT specially adapted for evolutionary bioinformatics, e.g. phylogenetic tree construction or analysis
G	16	B	15	00	ICT specially adapted for analysing two-dimensional or three-dimensional molecular structures, e.g. structural or functional relations or structure alignment
G	16	B	15	10	Nucleic acid folding
G	16	B	15	20	Protein or domain folding
G	16	B	15	30	Drug targeting using structural data; Docking or binding prediction
G	16	B	20	00	ICT specially adapted for functional genomics or proteomics, e.g. genotype-phenotype associations
G	16	B	20	10	Ploidy or copy number detection
G	16	B	20	20	Allele or variant detection, e.g. single nucleotide polymorphism [SNP] detection
G	16	B	20	30	Detection of binding sites or motifs

G	16	B	20	40	Population genetics; Linkage disequilibrium
G	16	B	20	50	Mutagenesis
G	16	B	25	00	ICT specially adapted for hybridisation; ICT specially adapted for gene or protein expression
G	16	B	25	10	Gene or protein expression profiling; Expression-ratio estimation or normalisation
G	16	B	25	20	Polymerase chain reaction [PCR]; Primer or probe design; Probe optimisation
G	16	B	25	30	Microarray design
G	16	B	30	00	ICT specially adapted for sequence analysis involving nucleotides or amino acids
G	16	B	30	10	Sequence alignment; Homology search
G	16	B	30	20	Sequence assembly
G	16	B	35	00	ICT specially adapted for in silico combinatorial libraries of nucleic acids, proteins or peptides
G	16	B	35	10	Design of libraries
G	16	B	35	20	Screening of libraries
G	16	B	40	00	ICT specially adapted for biostatistics; ICT specially adapted for bioinformatics-related machine learning or data mining, e.g. knowledge discovery or pattern finding
G	16	B	40	10	Signal processing, e.g. from mass spectrometry [MS] or from PCR
G	16	B	40	20	Supervised data analysis
G	16	B	40	30	Unsupervised data analysis
G	16	B	45	00	ICT specially adapted for bioinformatics-related data visualisation, e.g. displaying of maps or networks
G	16	B	5	00	ICT specially adapted for modelling or simulations in systems biology, e.g. gene-regulatory networks, protein interaction networks or metabolic networks
G	16	B	5	10	Boolean models
G	16	B	5	20	Probabilistic models
G	16	B	5	30	Dynamic-time models
G	16	B	50	00	ICT programming tools or database systems specially adapted for bioinformatics
G	16	B	50	10	Ontologies; Annotations
G	16	B	50	20	Heterogeneous data integration
G	16	B	50	30	Data warehousing; Computing architectures
G	16	B	50	40	Encryption of genetic data
G	16	B	50	50	Compression of genetic data
G	16	B	99	00	Subject matter not provided for in other groups of this subclass
G	16	C	-	-	COMPUTATIONAL CHEMISTRY; CHEMOINFORMATICS; COMPUTATIONAL MATERIALS SCIENCE
G	16	C	10	00	Computational theoretical chemistry, i.e. ICT specially adapted for theoretical aspects of quantum chemistry, molecular mechanics, molecular dynamics or the like
G	16	C	20	00	Chemoinformatics, i.e. ICT specially adapted for the handling of physicochemical or structural data of chemical particles, elements, compounds or mixtures
G	16	C	20	10	Analysis or design of chemical reactions, syntheses or processes
G	16	C	20	20	Identification of molecular entities, parts thereof or of chemical compositions

G	16	C	20	30	Prediction of properties of chemical compounds, compositions or mixtures
G	16	C	20	40	Searching chemical structures or physicochemical data
G	16	C	20	50	Molecular design, e.g. of drugs
G	16	C	20	60	In silico combinatorial chemistry
G	16	C	20	62	Design of libraries
G	16	C	20	64	Screening of libraries
G	16	C	20	70	Machine learning, data mining or chemometrics
G	16	C	20	80	Data visualisation
G	16	C	20	90	Programming languages; Computing architectures; Database systems; Data warehousing
G	16	C	60	00	Computational materials science, i.e. ICT specially adapted for investigating the physical or chemical properties of materials or phenomena associated with their design, synthesis, processing, characterisation or utilisation
G	16	C	99	00	Subject matter not provided for in other groups of this subclass
G	16	Z	-	-	INFORMATION AND COMMUNICATION TECHNOLOGY [ICT] SPECIALLY ADAPTED FOR SPECIFIC APPLICATION FIELDS, NOT OTHERWISE PROVIDED FOR
G	16	Z	99	00	Subject matter not provided for in other main groups of this subclass

old CPC					**TEXT**
A	01	B	45	04	for cutting sods or turves machines for lifting and treating soil A01B77/00
A	01	B	45	045	the machine being adapted for stacking sods or sod rolls
A	01	D	45	005	of mushrooms
A	01	G	1	00	HorticultureCultivation of vegetables labels or name-plates G09F3/00, G09F7/00
A	01	G	1	001	Horticultural methods
A	01	G	1	002	Growing turf
A	01	G	1	004	Pre-cultivated sod; Machines for laying it down
A	01	G	1	005	Planted mats, e.g. for covering roofs
A	01	G	1	007	Flat containers, e.g. for covering roofs
A	01	G	1	02	Cultivation of asparagus
A	01	G	1	04	Cultivation of mushrooms composts or fertilisers for cultivating mushrooms C05
A	01	G	1	042	Growing rooms with treatment apparatus; Cultivation racks or trays
A	01	G	1	044	Apparatus for treating mushroom compost
A	01	G	1	046	Cultivation bags or bottles
A	01	G	1	048	Mycorrhiza
A	01	G	1	06	Grafting grafting-wax A01N3/04
A	01	G	1	08	Edging for beds, lawns, or the like, e.g. using tiles
A	01	G	1	12	Tools for cultivating turfSweeping apparatus for lawnsGarden rollers machines for treating meadows or lawns A01B45/00; lawn-mowers A01D34/00
A	01	G	1	125	Machines for sweeping lawns and for collecting or disintegrating lawn debris
A	01	G	16	00	Cultivation of rice A01G9/00 takes precedence
A	01	G	2001	008	Growing plants or turf in soil-like layered substrates using a foil
A	01	G	2001	065	Removing buds

A	01	G	2009	1046	containing mineral wool
A	01	G	2009	1053	containing superabsorbents
A	01	G	2009	106	containing wood
A	01	G	2009	1093	for dwarf plants
A	01	G	2031	002	Substrates with a flexible envelope
A	01	G	2031	003	with foam substrates
A	01	G	2031	005	with mineral wool substrates
A	01	G	2031	007	with superabsorbents
A	01	G	2031	008	with wood
A	01	G	31	001	Soilless culture substrates
A	01	G	9	10	Pots or other receptacles for seeds, seedlings , saplings, cuttings or other young plants, e.g. foldable potsSoil-blocks or like for seedlings ; Plant substrate bodiesMeans for forming soil-blocks
A	01	G	9	1006	Tools, machines and methods for forming soil blocks or compressed pots, e.g. from peat
A	01	G	9	1013	soil blocks or compressed pots
A	01	G	9	102	Planting receptacles specially adapted for remaining in the soil after planting
A	01	G	9	1026	Seed or shoot receptacles
A	01	G	9	1033	Sterile receptacles, e.g. for tissue culture
A	01	G	9	104	Units comprising two or more connected receptacles
A	01	G	9	1066	Grids for supporting several receptacles
A	01	G	9	1073	Receptacles specially adapted for air layering
A	01	G	9	108	Handling or transporting of soil blocks or seedlings
A	01	G	9	1086	Composition of plant substrate bodies plant growth regulators A01N; fertilizers C05; soil conditionning or soil stabilizing materials C09K17/00
A	01	H	5	0205	Amaryllidaceae
A	01	H	5	0211	Alstroemeria
A	01	H	5	0216	Rosaceae
A	01	H	5	0222	Rosa roses
A	01	H	5	0227	Caryophyllaceae
A	01	H	5	0233	Dianthus carnations
A	01	H	5	0238	Begonia
A	01	H	5	0244	Euphorbia Poinsettia
A	01	H	5	025	Compositae
A	01	H	5	0255	Chrysanthemum
A	01	H	5	0261	Impatiens
A	01	H	5	0266	Kalanchoe
A	01	H	5	0272	Lilium
A	01	H	5	0277	Pelargonium Geraniums
A	01	H	5	0283	Gesneriaceae
A	01	H	5	0288	Saintpaulia Afr. Violets
A	01	H	5	0294	Streptocarpus
A	01	H	5	0806	Citrus
A	01	H	5	0812	Vitis grapes
A	01	H	5	0818	Persea avocados
A	01	H	5	0825	Nuts
A	01	H	5	0831	Rosaceae
A	01	H	5	0837	Prunus
A	01	H	5	0843	Apricots

A	01	H	5	085	Cherries
A	01	H	5	0856	Nectarines
A	01	H	5	0862	Plums
A	01	H	5	0868	Peaches
A	01	H	5	0875	Malus apples
A	01	H	5	0881	Pyrus pears
A	01	H	5	0887	Rubus brambles
A	01	H	5	0893	Fragaria strawberries
A	01	K	61	001	Sorting, grading counting or marking live fish; Sex determination sorting dead fish A22C25/04; sorting in general B07B, B07C; counting in general G06M
A	01	K	61	002	Culture of bivalves, e.g. oysters, mussels
A	01	K	61	003	Cleaning bottoms or walls of ponds or receptacles cleaning windows A47L; cleaning in general B08B; tank cleaning specially adapted for vessels B63B57/00; cleaning devices for hulls B63B59/00; devices for cleaning the submerged surfaces of a swimming pool E04H4/16
A	01	K	61	005	Culture of crustacea, e.g. lobsters, prawns, shrimps
A	01	K	61	006	Artificial reefs specially adapted for the culture of fish
A	01	K	61	007	Floating fish-farms
A	01	K	61	008	Incubators or hatching devices for fish
A	01	K	61	02	Feeding devices for fish fish food A23K50/80
A	01	K	61	025	for use with aquaria
A	21	D	13	0003	Partially or completely coated bakery products multi-layered bakery products with coating A21D13/0051, A21D13/0061
A	21	D	13	0006	Coated before baking the dough
A	21	D	13	0009	Coated after baking the dough
A	21	D	13	0012	comprising a barrier coating against migration
A	21	D	13	0016	Special coating composition icing or frosting A23G3/00
A	21	D	13	0019	Filled or stuffed bakery products multi-layered bakery products with filling A21D13/0054, A21D13/0064
A	21	D	13	0022	Filled before baking of the dough
A	21	D	13	0025	Filled or to be filled after baking of the dough, e.g. sandwiches
A	21	D	13	0029	Edible containers, e.g. cups or cones to be filled
A	21	D	13	0032	comprising a barrier against migration between filling and dough or bakery product
A	21	D	13	0035	Filled wafers
A	21	D	13	0038	Co-extruded product, i.e. obtained by co-extruding the dough and the filling
A	21	D	13	0041	Special filling composition
A	21	D	13	0045	Multi-layered bakery products
A	21	D	13	0048	made of at least 2 different doughs, e.g. differing in composition, colour or structure
A	21	D	13	0051	with coating
A	21	D	13	0054	with filling
A	21	D	13	0058	multi-layered pastry, e.g. puff pastry, danish pastry, laminated dough
A	21	D	13	0061	with coating
A	21	D	13	0064	with filling
A	21	D	13	0067	Special bakery products
A	21	D	13	007	Pizza
A	21	D	13	0074	Tortilla

A	21	D	13	0077	Pancakes; Crepes
A	21	D	13	008	Wafers with filling A21D13/0035
A	21	D	13	0083	Croutons from bread or backery products farinaceous granules A23L7/157
A	21	D	13	0087	Decorated or decorative bakery products
A	21	D	13	009	Bakery products with first function other than for eating, e.g. toys, cutlery
A	21	D	13	0093	Solidified foamed products, e.g. meringues
A	21	D	13	0096	Fat fried bakery products, e.g. doughnuts, spring rolls
A	21	D	13	08	Pastry, e.g. cake, biscuits, cookies
A	21	D	13	082	dummy
A	21	D	13	085	dummy
A	21	D	13	087	dummy
A	41	D	1	20	Maternity clothing
A	41	D	1	205	Nursing clothing brassiéres for nursing mothers A41C3/04
A	41	D	2023	006	Protectors therefor
A	41	D	2023	008	using a slide fastener to adjust the neck loop
A	41	D	2400	20	Air permeabilityVentilation
A	41	D	2400	22	Breathability, i.e. being vapour permeable and waterproof
A	41	D	2400	34	Antimicrobial or antibacterial
A	41	D	2400	60	Moisture handling or wicking function
A	41	D	2400	62	through several layers
					Selection of special materials for protective garments composition of materials
A	41	D	31	0011	for clothing affording protection against harmful chemical agents A62D5/00
A	41	D	31	0016	of layered products A41D31/0022 - A41D31/0077 take precedence
A	41	D	31	0022	against fire and heat
A	41	D	31	0027	using layered materials
					with thermal protective materials heat and fire resistant materials
A	41	D	31	0033	A41D31/0022
A	41	D	31	0038	using layered materials
A	41	D	31	0044	with shock absorbing materials
A	41	D	31	005	using layered materials
					resistant to mechanical aggressions, e.g. pierceproof materials aprons
A	41	D	31	0055	resistant to mechanical aggressions A41D13/043
A	41	D	31	0061	using layered materials
A	41	D	31	0066	against electric shocks or static electricity
A	41	D	31	0072	using layered materials
A	41	D	31	0077	with antibacterial or antimicrobial materials
A	41	D	31	0083	using layered materials
A	41	D	31	0088	with retroreflective materials
A	41	D	31	0094	using layered materials
A	45	D	2027	006	Devices for softening beards, e.g. face steamers
A	47	B	2088	0007	Drawers having additional side walls mountable on existing side walls
A	47	B	2088	0011	Covers for drawers preventing access to the interior
A	47	B	2088	0033	Drawers being held together by tension rods or elements
A	47	B	2088	0037	Corner connectors for drawers
A	47	B	2088	004	Connectors between bottom wall and side walls
A	47	B	2088	0048	the front panel being less wide than the drawer
A	47	B	2088	0059	having male and female interlocking parts
A	47	B	2088	0062	having two parts and using a screw
A	47	B	2088	0066	fastening the front panel to a metal sheet side wall

A	47	B	2088	007	fastening the front panel by a sprung bolt, latch or lock-bolt
A	47	B	2088	0074	fastening the front panel using a toggle-lever
A	47	B	2088	0077	Drawers having a gasket or sealing means arranged on the front panel
A	47	B	2088	0081	Drawers having a lifting mechanism
A	47	B	2088	0088	Connection means for railings
A	47	B	2088	0092	to the front panel of a drawer
A	47	B	2088	0096	to the back wall of a drawer
A	47	B	2088	023	Secondary drawer being in or above a primary drawer
A	47	B	2088	026	Coupling means therefor
A	47	B	2088	0403	Drawers being extractable on at least two sides of the cabinet
A	47	B	2088	0425	ensuring a correct connection at the moment when the drawer is coupled to the drawer rail
A	47	B	2088	0429	the drawer being detachable as a whole from a slide frame
A	47	B	2088	0433	at drawer front via latch means or locking lever
A	47	B	2088	0437	Quick-release clip
A	47	B	2088	0444	having a latch mechanism coupling or disconnecting a drawer with drawer side slide from the rest of the slide members
A	47	B	2088	0448	Slides or guides for wire baskets
A	47	B	2088	0459	with magnets holding the drawer in closed position
A	47	B	2088	0474	with detent or emboss on slide
A	47	B	2088	0488	the bottom, cabinet side slide having a U-shape section opening upwards
A	47	B	2088	0492	Fittings for connecting the front panel
A	47	B	2088	0496	Furniture base drawers or drawers with plinths
A	47	B	2088	202	Partition walls and holders therefore
A	47	B	2088	205	with separate holders
A	47	B	2088	207	with stamped sheet metal holding the partition walls
A	47	B	2210	0086	Drawer safety devices
A	47	B	2210	0089	Safety devices for drawers, e.g. anti-pinch
A	47	B	88	0003	Drawers being made of one piece of material, e.g. moulded or formed from sheet material having at least four-folding lines
A	47	B	88	0014	Drawers being constructed from two or more parts
A	47	B	88	0018	with at least two sides foldable or hinged
A	47	B	88	0022	connecting first side panel to bottom panel, back panel to bottom panel and second side panel to bottom by three folding lines
A	47	B	88	0025	connecting first side panel to back panel and back panel to second side panel by two folding lines
A	47	B	88	0029	connecting first side panel to bottom and second side panel to bottom panel by two folding lines
A	47	B	88	0044	Drawers characterized by the front panel arrangements
A	47	B	88	0051	Specific connection means for the drawer front
A	47	B	88	0055	for allowing adjustment of the front panel
A	47	B	88	0085	Railings for drawers
A	47	B	88	02	Coupled drawers
A	47	B	88	04	Sliding drawersSlides or guides therefor
A	47	B	88	0407	adjustably or detachably mounted in a cabinet or under a table top or the like
A	47	B	88	0411	Drawers with castors, rollers or wheels, supported directly on a surface below, e.g. on a floor, shelf or desktop
A	47	B	88	0414	electrically operated
A	47	B	88	0418	Fastening devices for slides or guides

A	47	B	88	0422	at drawer side
A	47	B	88	044	at cabinet side
A	47	B	88	0451	Profiled walls having grooves or protuberances for supporting multiple drawers
A	47	B	88	0455	Profiles or supporting structures for supporting single drawers A47B88/044 takes precedence
A	47	B	88	0462	with a couple of pivotally retractable roller supporting arms at the backside of the drawer
A	47	B	88	0466	Rollers for slides or guides
A	47	B	88	047	self-closing
A	47	B	88	0477	Self-opening, e.g. by touch-latch, touch-touch or push push movements
A	47	B	88	0481	both self-closing and self-opening
A	47	B	88	0485	Vertically-oriented drawers
A	47	B	88	06	Drawers which can be rotated while or after sliding out
A	47	B	88	08	with double extensible guides or parts
A	47	B	88	10	with rollers, ball bearings, wheels, or the like
A	47	B	88	12	with other guiding mechanisms
A	47	B	88	14	with rollers, ball bearings, wheels, or the like
A	47	B	88	16	with devices to prevent complete withdrawal
A	47	B	88	18	Drawers tiltably or pivotally arranged
A	47	B	88	20	Drawers with compartments partitions for show shelves A47F5/005
A	47	B	88	22	Concealed drawers
A	47	C	7	022	especially profiled for adaptation to body contour
A	61	B	2017	320076	Tissue manipulating surface
A	61	B	2017	320096	with transverse or torsional motion
A	61	B	2018	2085	Scanning mechanisms
A	61	B	2018	209	by movable optical fibre end
A	61	B	2018	2095	by movable mirror, e.g. galvanometric
A	61	C	5	002	Facets
A	61	C	5	005	Dental anchoring pins; Mounting tools or dispensers therefor A61C13/30 takes precedence
A	61	C	5	02	Implements for surgical treatment of the roots or nerves of the teethNerve needlesMethods or instruments for medication of the roots substances for chemical treatment A61K6/00
A	61	C	5	021	Not used, see subgroups
A	61	C	5	023	Root canal files; Handgrips or guiding means therefor A61C1/082, A61C5/025, A61C19/02 take precedence
A	61	C	5	025	Depth control, e.g. for files; Supports or boxes with depth gauging means; Stop positioners; Instruments adjustably mounted in handle portion
A	61	C	5	026	Nerve extractors, e.g. needles; Removing broken parts of endodontic instruments
A	61	C	5	028	Means preventing loss of endodontic instruments
A	61	C	5	04	Implements for filling natural teethMethods or instruments for medication of tooth nerve channels rinsing tooth nerve channels A61C17/02; composition of the fillings A61K6/02
A	61	C	5	045	with heating means, e.g. for heating gutta percha or filling
A	61	C	5	06	Amalgam presses or mixers A61C19/005 takes precedence
A	61	C	5	062	Dental composition applicators, e.g. syringes, guns A61C9/0026 takes precedence
A	61	C	5	064	Multi-component applicators

A	61	C	5	066	Amalgam capsules
A	61	C	5	068	Dental composition mixers, e.g. amalgators, capsule holders
A	61	C	5	08	Tooth crownsMaking sameSecuring crowns in the mouth dental implants A61C8/00
A	61	C	5	10	Methods or devices for making crowns A61C13/0004 takes precedence
A	61	C	5	12	Tooth clampsDam holders; Dental aids fixed to the teeth during treatment
A	61	C	5	122	Dental dams; Holders or clamps therefor
A	61	C	5	125	Dental filling bands, e.g. matrix bands; Manipulating tools therefor
A	61	C	5	127	Dental wedges
A	61	C	5	14	Lip or mouth protectors
A	61	K	38	11	OxytocinsVasopressinsRelated peptides
A	61	K	47	48	the non-active ingredient being chemically bound to the active ingredient, e.g. polymer drug conjugates
A	61	K	47	48007	the pharmacologically- or therapeutically-active agent being covalently bound or complexed to a modifying agent
A	61	K	47	48015	the modifying agent being an inorganic compound, e.g. inorganic ion that being chemically complexed with the pharmacologically- or therapeutically-active agent A61K47/48161 takes precedence
A	61	K	47	48023	the modifying agent being an organic compound A61K47/48161 takes precedence
A	61	K	47	4803	the modifying agent being an organic ion that forms an ion pair complex with the pharmacologically or therapeutically active agent
A	61	K	47	48038	the modifying agent being a carboxylic acid, e.g. a fatty acid or an amino acid
A	61	K	47	48046	the modifying agent being a lipid, e.g. a triglyceride; the modifying agent being a polyamine, e.g. spermine or spermidine
A	61	K	47	48053	the modifying agent being a phospholipid
A	61	K	47	48061	the modifying agent being a heterocyclic compound A61K47/48153 takes precedence
A	61	K	47	48069	the modifying agent being a heterocyclic compound which being a porphyrine or a porphyrine with an expanded ring system, e.g. texaphyrine
A	61	K	47	48076	the modifying agent being a chelate, i.e. single central atom/ion sequestered by a polydentate ligand, e.g. Gd-DOTA or Zinc-amino acid chelate, or a chelate-forming compound, i.e. chelating group, e.g. DOTA or ethylenediamine, that being covalently/complexed to the pharmacologically- or therapeutically-active agent
A	61	K	47	48084	the modifying agent being a phosphate or phosphonate not being a phospholipid, e.g. bone-seeking
A	61	K	47	48092	the modifying agent linked to the pharmacologically or therapeutically active agent being a sugar, nucleoside, nucleotide, nucleic acid
A	61	K	47	481	the modifying agent being also a pharmacologically or therapeutically active agent, i.e. the entire conjugate being a codrug, i.e. a dimer, oligomer or polymer of pharmacologically or therapeutically active compounds, e.g. a polymer of aspirin
A	61	K	47	48107	one of the codrug's components being a vitamin, e.g. niacinamide (vitamin B3), cobalamin (vitamin B12), folate, vitamin A, retinoic acid
A	61	K	47	48115	one of the codrug's components being an antibiotic
A	61	K	47	48123	the modifying agent being a steroid plant sterol, glycyrrhetic acid, enoxolone, bile acid

					pretargeting systems involving an organic compound, not being a peptide,
A	61	K	47	4813	protein or antibody, for targeting specific cells
A	61	K	47	48138	ECTA, enzyme catalyzed therapeutic agent
A	61	K	47	48146	the modifying agent being biotin
A	61	K	47	48153	the modifying agent being a chemiluminescent acceptor
A	61	K	47	48161	Redox delivery systems, e.g. dihydropyridine pyridinium salt redox systems
A	61	K	47	48169	the modifying agent being an organic macromolecular compound, i.e. an oligomeric, polymeric, dendrimeric molecule
A	61	K	47	48176	the organic macromolecular compound has been obtained by reactions only involving carbon-to-carbon unsaturated bonds, e.g. poly(meth)acrylate, polyacrylamide, polystyrene, polyvinylpyrrolidone, polyvinylalcohol
A	61	K	47	48184	the macromolecular compound obtained by reactions only involving carbon-to-carbon unsaturated bonds being an ion exchange resin, e.g. polystyrene sulfonic acid resin
A	61	K	47	48192	the organic macromolecular compound has been obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, e.g. polyureas, polyurethanes
A	61	K	47	482	the macromolecule is/contains a polyester, e.g. PLGA, polylactide-co-glycolide
A	61	K	47	48207	the macromolecule is/contains a polyamide, e.g. nylon polyamino acids A61K47/48238
A	61	K	47	48215	the organic macromolecular compound being a polyoxyalkylene oligomer, polymer, dendrimer, e.g. PEG, PPG, PEO, polyglycerol
A	61	K	47	48223	the macromolecule contains phosphorus in the main chain, e.g. poly-phosphazene
A	61	K	47	4823	the organic macromolecular compound being a polysaccharide or a derivative, e.g. starch, chitosan, chitin, cellulose, pectin, cyclodextrin with the pharmacologically active agent being covalently linked to the external surface of the ring structure, a bacterial polysaccharide or oligosaccharide antigen, a glycosaminoglycan
A	61	K	47	48238	the modifying agent being a protein, peptide, polyamino acid
A	61	K	47	48246	drug-peptide, protein or polyamino acid conjugates, i.e. the modifying agent being a protein, peptide, polyamino acid which being linked/complexed to a molecule that being the pharmacologically or therapeutically active agent peptidic linker are classified in A61K47/48338
A	61	K	47	48253	the peptide, protein or polyamino acid in the drug conjugate being a branched, dendritic or hypercomb peptide
A	61	K	47	48261	the peptide or protein in the drug conjugate being a toxin or a lectin, e.g. clostridial toxins or Pseudomonas exotoxin
A	61	K	47	48269	the peptide or protein in the drug conjugate being a cytokine, e.g. IL2, chemokine, growth factors, interferons being the inactive part of the conjugate
A	61	K	47	48276	the peptide or protein in the drug conjugate being a receptor as such, e.g. CD4; a cell surface antigen (therefore not a peptide ligand targeting the antigen); a cell surface determinant, i.e. a part of the surface of a cell
A	61	K	47	48284	the peptide or protein in the drug conjugate being an albumin, e.g. HSA, BSA, ovalbumin, or a Keyhole Limpet Hemocyanin [KHL]

					the peptide or protein in the drug conjugate being a connective tissue peptide,
A	61	K	47	48292	e.g. collagen, fibronectin, gelatin
					the peptide or protein in the drug conjugate being a transferrin, e.g. a
A	61	K	47	483	lactoferrin or ovotransferrin
A	61	K	47	48307	the peptide or protein in the drug conjugate being a haemoglobin
					the peptide or protein in the drug conjugate being a polycationic or polyanionic
					oligopeptide, polypeptide or polyamino acid, e.g. polylysine, polyarginine,
A	61	K	47	48315	polyglutamic acid, peptide TAT
					polyanionic oligopeptide, polypeptide or polyamino acid, used to complex
A	61	K	47	48323	nucleic acids being the therapeutic agent
					the entire peptide or protein drug conjugate elicits an immune response, e.g.
A	61	K	47	4833	conjugate vaccines
A	61	K	47	48338	peptidic linker, binder, spacer, e.g. peptidic enzyme-labile linker
					pretargeting systems involving a peptide or protein not an antibody
A	61	K	47	48346	A61K47/48723for targeting specific cells
					pretargeting system, clearing therapy or rescue therapy involving biotin-
A	61	K	47	48353	(strept) avidin systems
					Enzyme prodrug therapy, e.g. gene directed enzyme drug therapy [GDEPT],
A	61	K	47	48361	VDEPT
					the modifying part being an antibody, an immunoglobulin, or a fragment
A	61	K	47	48369	thereof, e.g. a Fc-fragment
					drug-antibody or immunoglobulin conjugates defined by the pharmacologically
A	61	K	47	48376	or therapeutically active agent
					drug conjugated to an antibody or immunoglobulin, e.g. cisplatin-antibody
A	61	K	47	48384	conjugates
A	61	K	47	48392	the drug being a vinca alkaloid
					the drug or compound being a sugar, nucleoside, nucleotide, nucleic acid, e.g.
A	61	K	47	484	RNA antisense
					the drug being an antibiotic, e.g. one of the antitumor antibiotics: anthracyclins,
A	61	K	47	48407	adriamycin, doxorubicin, daunomycin
A	61	K	47	48415	the drug being a protein or peptide, e.g. transferrin or bleomycin
A	61	K	47	48423	the drug being a peptidic cytokine, e.g. an interleukin or interferon
A	61	K	47	4843	the drug being an enzyme
A	61	K	47	48438	the drug being a toxin
A	61	K	47	48446	the drug being a plant toxin
					the drug being a plant heterodimeric toxin; chains A or B containing toxins,
A	61	K	47	48453	e.g. abrin, modeccin
A	61	K	47	48461	the drug being ricin (double chain)
					the drug being a ribosomal inhibitory protein,(RIP-i or RIP-II), e.g. Pap,
A	61	K	47	48469	gelonin, dianthin
A	61	K	47	48476	the drug being ricin A
A	61	K	47	48484	the drug being a bacterial toxin, e.g. diphteria toxin, Pseudomonas exotoxin A
A	61	K	47	48492	the drug being a fungal toxin, e.g. alpha sarcine, mitogillin, zinniol, restrictocin
A	61	K	47	485	the drug being a viral toxin
					the modifying agent being a well defined antibody or immunoglobulin bearing
A	61	K	47	48507	at least one antigen-binding site
A	61	K	47	48515	not used; see subgroups
A	61	K	47	48523	the antibody being against material from viruses

A	61	K	47	4853	the antibody being targeting a RNA virus
A	61	K	47	48538	the antibody being targeting a material from animals or humans
A	61	K	47	48546	the antibody being targeting a cytokine, e.g. growth factors, VEGF, TNF, a lymphokine or an interferon
A	61	K	47	48553	the antibody being targeting an hormone, or an hormone-releasing or -inhibiting factor
A	61	K	47	48561	the antibody being targeting a receptor, a cell surface antigen, a cell surface determinant
A	61	K	47	48569	the antibody being targeting a determinant of a tumour cell
A	61	K	47	48576	the tumour determinant being carcino-embryonic antigen
A	61	K	47	48584	the tumour determinant being from breast cancer cell
A	61	K	47	48592	the tumour determinant being from lung cancer cell
A	61	K	47	486	the tumour determinant being from liver or pancreas cancer cell
A	61	K	47	48607	the tumour determinant being from kidney or bladder cancer cell
A	61	K	47	48615	the tumour determinant being from stomach or intestines cancer cell
A	61	K	47	48623	the tumour determinant being from skin, nerves or brain cancer cell
A	61	K	47	4863	the tumour determinant being from a cell of a blood cancer
A	61	K	47	48638	the tumour determinant being from a cell of the reproductive system: ovaria, uterus, testes, prostate
A	61	K	47	48646	the antibody being targeting an enzyme
A	61	K	47	48653	the antibody being targeting an immunoglobulin, being an anti-idiotypic antibody
A	61	K	47	48661	the antibody being a hybrid immunoglobulin
A	61	K	47	48669	the antibody being an immunoglobulin containing regions, domains, residues from different species
A	61	K	47	48676	the immunoglobulin has two or more different antigen-binding sites, e.g. bispecific or multispecific immunoglobulin
A	61	K	47	48684	cluster-antibody conjugates, i.e. the modifying agent consists of a plurality of antibodies that are covalently linked to each other, or of different antigen-binding fragments fragments that are covalently linked to each other
A	61	K	47	48692	polymer-drug antibody conjugates, e.g. mitomycin-dextran-Ab; DNA-polylysine-antibody complex or conjugate, used for therapy
A	61	K	47	487	the conjugate or the polymer being a starburst, a dendrimer, a cascade
A	61	K	47	48707	antibody-chelate conjugate wherein the chelate being used for therapeutic purposes when radioabeled and used in radiodiagnosis or radiotherapy A61K51/1093 and the corresponding A61K51/1003 subgroup; antibody-chelate used for MRI A61K49/14
A	61	K	47	48715	conjugates wherein the antibody being the modifying agent and wherein the linker, binder, spacer confers particular properties to the conjugate, e.g. peptidic enzyme-labile linker or acid-labile linker giving rise to an acid-labile immunoconjugate wherein the drug may be released from its antibody conjugated part in an acidic, e.g. tumoural, environment
A	61	K	47	48723	pretargeting systems involving an antibody for targeting specific cells
A	61	K	47	4873	clearing therapy or enhanced clearance, i.e. wherein an antibody clearing agent being used in addition to T-A and D-M according to the definitions in A61K47/48723
A	61	K	47	48738	rescue therapy; agonist-antagonist; antidote; targeted rescue or protection, e.g. folic acid-folinic acid, conjugated to antibodies both or only one

					two or three steps pretargeting systems, wherein an antibody conjugate being
A	61	K	47	48746	used in at least one of the steps; ligand-antiligand therapy
					avidin-biotin system wherein at least one avidin- or biotin-conjugated antibody
A	61	K	47	48753	being used in a two- or three-steps pretargeting system
A	61	K	47	48761	ADEPT, i.e. Antibody Directed Enzyme Prodrug Therapy
A	61	K	47	48769	the conjugate being characterized by a special physical or galenical form
					forms of ingredients not provided for by groups A61K47/48784 - A61K47/48992, e.g. cells, cell fragments, viruses, ghosts, red blood cells, viral vectors having the pharmacologically or therapeutically active agent complexed or covalently linked to, or being themselves modified by
A	61	K	47	48776	complexation or covalent linkage by a modifying agent
A	61	K	47	48784	the form being semi-solid, an ointment, a gel, a hydrogel, a solidifying gel
					the form being a colloid, emulsion, i.e. having at least a dispersed/continuous oil phase and a dispersed/continuous aqueous phase, dispersion or
A	61	K	47	48792	suspension
					the form being a micro-emulsion, nano-emulsion or micelle Simple
A	61	K	47	488	encapsulation of a drug in micelle: A61K9/1075
A	61	K	47	48807	micelles formed by phospholipids
					the form being a liposome, i.e. a bilayered vesicle, having its surface modified by covalent attachment or complexation of the pharmacologically or therapeutically active agent and/or modifying agent. Simple encapsulation of a drug which being not functionalised on its surface by a modifying agent:
A	61	K	47	48815	seeA61K9/127
A	61	K	47	48823	the form being a liposome which being modified on its surface by an antibody
					the form being a polymersome, i.e. a liposome with polymerisable or
A	61	K	47	4883	polymerized bilayer-forming substances
A	61	K	47	48838	the form being a lipoprotein vesicle, e.g. HDL and LDL proteins
A	61	K	47	48846	the form being a ribbon, tubule cochleate
A	61	K	47	48853	the form being a particulate, powder, adsorbate, bead, sphere
					the form being an inorganic particle, e.g. a ceramic particle, silica particle,
A	61	K	47	48861	ferrite, synsorb
					the form being a micro- or nano-capsule or a micro/nano-bubble, i.e. a hollow or gas micro- or nano-particle or sphere, a gas-filled micro- or nano-particle for use in therapy Micro- or nano-bubbles used only for ultrasound imaging are
A	61	K	47	48869	classified in A61K49/223 or A61K49/225 only
					the form being a solid micro- or nanoparticle having no hollow or gas-filled
A	61	K	47	48876	core
A	61	K	47	48884	the form being a nanoparticle, e.g. an immuno-nanoparticle
A	61	K	47	48892	the material constituting the nanoparticle being a polymer
					the material constituting the nanoparticle being a polymer obtained by reactions only involving carbon to carbon, e.g. poly(meth)acrylate,
A	61	K	47	489	polystyrene, polyvinylpyrrolidone, polyvinylalcohol
					the material constituting the nanoparticle being a polymer obtained otherwise than by reactions involving carbon to carbon unsaturated bonds, e.g.
A	61	K	47	48907	polyesters, polyamides, polyglycerol
A	61	K	47	48915	the polymer being PLGA, PLA or polyglycolic acid
					the polymer being a polysaccharide, e.g. starch, chitosan, chitin, cellulose,
A	61	K	47	48923	pectin
A	61	K	47	4893	the form being a granulate or an agglomerate

A	61	K	47	48938	the form being a pill, tablet, lozenge, capsule
A	61	K	47	48946	Microcapsules
A	61	K	47	48953	Nanocapsules; Nanoparticles, e.g. immunonanoparticles
A	61	K	47	48961	the conjugate being in the form of a host-guest, i.e. being an inclusion complex, e.g. clathrate, cavitate, fullerene
A	61	K	47	48969	inclusion being performed with a cyclodextrin cyclodextrins used as simple excipients A61K47/40
A	61	K	47	48976	the form being a fibre, textile, slabb, sheet
A	61	K	47	48984	the form being a plaster, bandage, dressing, patch
A	61	K	47	48992	the form being a device, kit .e.g. stent, microdevice
A	61	K	8	975	Pollen; Algae, Higher fungi
A	61	M	5	31503	
A	61	N	1	36032	of the outer, middle or inner ear, e.g. cochlear implants
A	61	N	1	36035	for correcting spinal deformities, e.g. scoliosis
A	61	N	2001	086	MRI compatible leads
A	61	N	2001	34	for producing anaesthesia or for general pain therapy
A	61	N	2001	36039	for treating a mental or cerebral condition
A	63	B	2067	163	Details Not used
A	63	B	2067	166	the diabolo being able to rotate freely in one direction only, e.g. fitted with an over-running clutch
B	01	D	1	2821	B2+B2B
B	01	D	1	2825	B2+B4
B	01	D	1	2828	B2+B4B
B	01	D	1	2831	B2B+B4
B	01	D	1	2834	B2B+B4B
B	01	D	1	2837	B4+B4B
B	01	D	1	2859	D2+D4
B	01	D	1	2862	D2+D4+D6
B	01	D	1	2865	D2+D4+D6B
B	01	D	1	2868	D2+D6
B	01	D	1	2871	D2+D6B
B	01	D	1	2875	D4+D6
B	01	D	1	2878	D4+D6B
B	01	J	39	043	in the strongly acidic form
B	01	J	39	046	in the weakly acidic form
B	01	J	39	085	Inorganic material
B	01	J	39	165	containing also inorganic materials, e.g. inert material coated with an ion-exchange resin
B	01	J	39	185	obtained otherwise than by reactions only involving unsaturated carbon-to-carbon bonds
B	01	J	41	043	in the strongly basic form
B	01	J	41	046	in the weakly basic form
B	01	J	41	085	Organic material macromolecular compounds B01J41/12
B	01	J	41	125	obtained otherwise than by reactions only involving unsaturated carbon-to-carbon bonds
B	01	J	47	001	using batch processes
B	01	J	47	002	using portable ion-exchanging apparatus
B	01	J	47	003	in which the adsorbent properties of the ion-exchanger are involved, e.g. recovery of high molecular compounds (proteins)
B	01	J	47	005	electron-exchangers

B	01	J	47	006	Modification or after-treatment of ion-exchangers
B	01	J	47	007	Granulation, incorporation of ion-exchangers in a matrix, mixing with inert materials
B	01	J	47	008	mixture in form of tablets
B	01	J	47	105	in rotating beds
B	01	J	47	123	Use of materials in the form of filaments or fibres
B	01	J	47	126	Precoat filters
B	01	J	47	145	for obtaining a solution having a fixed pH
B	01	J	49	0004	of fixed beds
B	01	J	49	0008	containing cationic exchangers
B	01	J	49	0013	containing anionic exchangers
B	01	J	49	0017	containing cationic and anionic exchangers in separated beds
B	01	J	49	0021	of mixed beds
B	01	J	49	0026	of moving beds
B	01	J	49	003	containing cationic exchangers
B	01	J	49	0034	containing anionic exchangers
B	01	J	49	0039	containing cationic and anionic exchangers in separated beds
B	01	J	49	0043	of mixed beds
B	01	J	49	0047	of membranes
B	01	J	49	0052	electrical regeneration
B	01	J	49	0056	thermal regeneration
B	01	J	49	006	of amphoteric ion-exchangers ("Sirotherm process")
B	01	J	49	0065	characterised by the regeneration reagents
B	01	J	49	0069	for cationic exchangers
B	01	J	49	0073	for anionic exchangers
B	01	J	49	0078	Cleaning or rinsing ion-exchange beds
B	01	J	49	0082	Process involving a plant
B	01	J	49	0086	of water softeners
B	01	J	49	0091	Automatic regeneration
B	01	J	49	0095	Controlling or regulating devices therefor
B	01	J	49	02	having devices which prevent back-flow of the ion-exchange mass during regenerating
B	05	B	11	0016	Venting means for deformable containers B05B11/047
B	05	B	11	0018	actuated by the pressure difference between the ambient pressure and the pressure in the inner space of the container for liquid or other fluent material
B	05	B	11	0021	comprising means for filtering or cleaning the air flow drawn into the container
B	05	B	11	0024	located in the bottom wall of the container or of an enclosure surrounding the container
B	05	B	11	004	with means for compensating for the underpressure created by evacuating the container venting means B05B11/0016
B	05	B	11	0043	the container being a collapsible or foldable bag
B	05	B	11	0045	the bag or membrane being inverted during emptying of the container
B	05	B	11	0048	the container comprising a movable piston or the like
B	05	B	11	0051	located above the liquid or other fluent material
B	05	B	15	001	Devices for preventing non-intended contact of spray heads or nozzles with foreign bodies, e.g. sprinkler or nozzle guards
B	05	B	15	002	Means for stirring, mixing or homogenising the material in a container to be sprayed

B	05	B	15	003	comprising a moving element, e.g. a rotating blade
B	05	B	15	005	Dip tubes
B	05	B	15	006	Weighted dip tubes
B	05	B	15	007	with decorative elements
B	05	B	15	008	Filters specially adapted for spraying plants or apparatus
B	05	B	15	02	Arrangements or devices for cleaning discharge openings, nozzles, spraying heads or spraying apparatus; Arrangements or devices for preventing discharge openings, nozzles, spraying heads or spraying apparatus from becoming dirty or clogged; Devices for detecting presence of foreign matter in discharge openings
B	05	B	15	0208	Means for cleaning or allowing removal of clogging particles B05B15/025, B05B15/0291 take precedence
B	05	B	15	0216	a cleaning element extending through a discharge opening at least during the cleaning operation
B	05	B	15	0225	the cleaning element, e.g. a needle, and the discharge opening being movable relative to each other in a direction substantially parallel to the flow of liquid or other fluent material through said opening
B	05	B	15	0233	the cleaning element being located upstream of the discharge opening or being actuated upstream therefrom
B	05	B	15	0241	Means for increasing the cross section of a discharge orifice
B	05	B	15	025	Cleaning means involving the use of a cleaning fluid B05B15/0275 takes precedence
B	05	B	15	0258	discharged by cleaning nozzles cleaning by the force of jets or sprays in general B08B3/02
B	05	B	15	0266	the cleaning fluid being a mixture of gas and liquid
B	05	B	15	0275	the liquid or other fluent material flowing during cleaning operation through a discharge opening in a direction opposite to the spraying flow direction through said discharge opening
B	05	B	15	0283	the discharge opening being reversed relative to a supply conduit located just upstream of the former
B	05	B	15	0291	by resilient deformation of the nozzle
B	05	B	15	04	Control of spray area, e.g. masking, side shieldsMeans for collection or re-use of excess material B05B1/28 takes precedence
B	05	B	15	0406	Means for collecting or recycling surplus material B05B15/1225 takes precedence
B	05	B	15	0412	the surplus material being particulate material
B	05	B	15	0418	from a moving belt, e.g. a filtering belt or a conveying belt for the objects to be sprayed
B	05	B	15	0425	comprising an enclosure surrounding the spray, said enclosure having an open end contacting or being placed in close proximity to the surface to be sprayed, defining therewith a containment
B	05	B	15	0431	using a gas stream
B	05	B	15	0437	Shielding or masking elements being displaced relative to the sprayed area during spraying
B	05	B	15	0443	Side shields, i.e. extending in a direction substantially parallel to the spray jet B05B15/0431, B05B15/0437 take precedence
B	05	B	15	045	Masking elements B05B15/0487 takes precedence
B	05	B	15	0456	made at least partly of soft flexible material, e.g. sheets or strips of paper, fabric or soft plastics
B	05	B	15	0462	for masking cavities

B	05	B	15	0468	between a door and a post, e.g. foam strips
B	05	B	15	0475	generating border lines between coated and uncoated surfaces where one is not enclosed in the other B05B15/0456 takes precedence
B	05	B	15	0481	being dimensionally adjustable
B	05	B	15	0487	for vehicle wheels
B	05	B	15	0493	Devices for making a normally hidden area accessible for the spray material
B	05	B	15	06	Mountings, supporting or holding means, or rests for spray heads or other outlets or for the whole spraying apparatus when in use or out of use B05B13/005, B05B15/1225 take precedence
B	05	B	15	061	Supporting means, e.g. suction cups, handgrips, hooks for the discharge apparatus
B	05	B	15	062	of the ground-penetrating type
B	05	B	15	063	designed to lie on the ground
B	05	B	15	064	Supports of variable length; Actioning means mounted thereon
B	05	B	15	065	Mounting arrangements for fluidically connecting the spray apparatus, spray heads or other outlets to a flow conduit joints in general F16L13/00 - F16L37/00
B	05	B	15	066	allowing the orientation of the jet
B	05	B	15	067	using a universal joint type
B	05	B	15	068	allowing changing the length of the flow conduit
B	05	B	15	069	the axis of the spray apparatus, spray heads or other outlets being perpendicular to the flow conduit
B	05	B	15	08	Means for adjusting position of spray heads with indexing means provided therefor
B	05	B	15	10	Arrangements for moving spray heads automatically to or from the working position nozzles for cleaning vehicle windscreens or optical devices moved between a rest position and a working position B60S1/528
B	05	B	15	12	Spray booths
B	05	B	15	1203	Spray tables, stands or hoods
B	05	B	15	1207	Arrangements of booths, e.g. plural booths, specially adapted for effecting several operations, e.g. spraying and drying, or several spraying actions
B	05	B	15	1211	for both automatic and manual spraying
B	05	B	15	1214	characterised by their construction, e.g. floor, walls, ceiling filtering ceilings for the air inlet B05B15/1222
B	05	B	15	1218	Partly or totally cylindrical walls; Round floors
B	05	B	15	1222	characterised by their ventilation B05B15/1225 takes precedence
B	05	B	15	1225	Arrangements for collecting, recovering, recycling or eliminating the surplus material
B	05	B	15	1229	the surplus material being particulate material B05B15/1237 - B05B15/1262 take precedence
B	05	B	15	1233	Recovering or eliminating solvents B05B15/1237 - B05B15/1262 take precedence
B	05	B	15	1237	by cleaning the walls of the booth filtering walls B05B15/1248
B	05	B	15	124	comprising perforated or porous walls cleaned or prevented from being contacted by oversprayed material by a flow of fluid, e.g. air or water, directed into the booth
B	05	B	15	1244	using electrostatic means
B	05	B	15	1248	by filtering the exhaust air of the booth

B	05	B	15	1251	Filters cleaned by a gas flow, e.g. a blast of air applied to the clean side of the filters
B	05	B	15	1255	A special additive material being introduced in the exhaust flow upstream the filter for preventing clogging of the latter
B	05	B	15	1259	using special wall constructions, e.g. baffle plates promoting separation of the surplus material from the exhaust air of the booth
B	05	B	15	1262	by washing the exhaust air of the booth
B	05	B	15	1266	Recovering or eliminating the paint sludge from the washing liquid
B	05	B	15	127	by using ultrafiltration
B	05	B	15	1274	the washing liquid being the liquid to be sprayed
B	05	B	15	1277	Opened booths; Booths in which a liquid curtain or a substantially vertical wetted wall is located behind the object to be sprayed
B	05	B	15	1281	Underfloor scrubbing means
B	05	B	15	1285	comprising a cyclone separator
B	05	B	15	1288	comprising conveying means for moving objects or other work in and out of the booth, e.g. through the booth
B	05	B	15	1292	the objects or other work lying on, or being held above the conveying means, i.e. not hanging from the conveying means
B	05	B	15	1296	Movable spray booths
B	07	B	2200	00	Dummy title
B	08	B	2200	00	Dummy title
B	23	K	2201	00	Articles made by soldering, welding or cutting by applying heat locally
B	23	K	2201	001	Turbines
B	23	K	2201	002	Drill-bits
B	23	K	2201	003	Pistons
B	23	K	2201	005	Camshafts
B	23	K	2201	006	Vehicles
B	23	K	2201	007	Marks, e.g. trade marks
B	23	K	2201	008	Gears
B	23	K	2201	02	Honeycomb structures
B	23	K	2201	04	Tubular or hollow articles
B	23	K	2201	045	Hollow panels
B	23	K	2201	06	Tubes
B	23	K	2201	08	finned or ribbed
B	23	K	2201	10	Pipe-lines
B	23	K	2201	12	Vessels
B	23	K	2201	125	Cans
B	23	K	2201	14	Heat exchangers
B	23	K	2201	16	Bands or sheets of indefinite length
B	23	K	2201	18	Sheet panels
B	23	K	2201	185	Tailored blanks
B	23	K	2201	20	Tools
B	23	K	2201	22	Nets, wire fabrics or the like
B	23	K	2201	24	Frameworks
B	23	K	2201	26	Railway or like rails
B	23	K	2201	28	Beams
B	23	K	2201	30	Chains, hoops or rings
B	23	K	2201	32	Wires
B	23	K	2201	34	Coated articles, e.g. plated or paintedSurface treated articles
B	23	K	2201	35	Surface treated articles

B	23	K	2201	36	Electric or electronic devices
B	23	K	2201	38	Conductors
B	23	K	2201	40	Semiconductor devices
B	23	K	2201	42	Printed circuits
B	23	K	2203	00	Materials to be soldered, welded or cut
B	23	K	2203	02	Iron or ferrous alloys
B	23	K	2203	04	Steel or steel alloys
B	23	K	2203	05	Stainless steel
B	23	K	2203	06	Cast-iron alloys
B	23	K	2203	08	Non-ferrous metals or alloys
B	23	K	2203	10	Aluminium or alloys thereof
B	23	K	2203	12	Copper or alloys thereof
B	23	K	2203	14	Titanium or alloys thereof
B	23	K	2203	15	Magnesium or alloys thereof
B	23	K	2203	16	Composite materials, e.g. fibre reinforced
B	23	K	2203	166	Multilayered materials
B	23	K	2203	172	wherein at least one of the layers is non-metallic
B	23	K	2203	18	Dissimilar materials
B	23	K	2203	20	Ferrous alloys and aluminium or alloys thereof
B	23	K	2203	22	Ferrous alloys and copper or alloys thereof
B	23	K	2203	24	Ferrous alloys and titanium or alloys thereof
B	23	K	2203	26	Alloys of Nickel and Cobalt and Chromium
B	23	K	2203	30	Organic material
B	23	K	2203	32	Material from living organisms, e.g. skins
B	23	K	2203	34	Leather
B	23	K	2203	36	Wood or similar materials
B	23	K	2203	38	Fabrics, fibrous materials
B	23	K	2203	40	Paper
B	23	K	2203	42	Plastics B23K2203/16 takes precedence
B	23	K	2203	50	Inorganic material, e.g. metals, not provided for in B23K2203/02 – B23K2203/26
B	23	K	2203	52	Ceramics
B	23	K	2203	54	Glass
B	23	K	2203	56	semiconducting semiconducting devices B23K2201/40
B	23	K	26	0054	Working by transmitting the laser beam within the workpiece
B	23	K	26	0057	by modifying or reforming the material inside the workpiece, e.g. for producing break initiation cracks
B	23	K	26	006	by creating voids inside the workpiece, e.g. for forming flow passages or flow patterns
B	23	K	26	0063	the laser beam entering a face of the workpiece from which it is transmitted through the workpiece material to work on a face remote from the face where the laser beam entered the workpiece, e.g. for effecting removal, fusion splicing, modifying or reforming
B	23	K	26	0066	for surface treatment for changing the physical structure of ferrous metals or alloys C21D, of non-ferrous metals or alloys C22F; for alloying C23C; annealing crystalline material C30B33/02; laser treatment of semiconductors H01L
B	23	K	26	0069	Laser shock processing modifying the physical properties of ferrous metals by laser shock processing C21D10/005
B	23	K	26	0072	Modifying rugosity

B	23	K	26	0075	Diminishing rugosity, e.g. grinding; Polishing; Smoothing
B	23	K	26	0078	Increasing rugosity, e.g. roughening
B	23	K	26	0081	by melting laser re-melting of metals by wave energy C22B9/22; laser melting of glass C03C; laser melting for crystal growth C30B
B	23	K	26	0084	Texturing
B	23	K	26	0087	by providing a line or line pattern, e.g. a dotted break initiation line
B	23	K	26	1429	the flow carrying an electric arc, e.g. laser arc hybrid welding
B	29	C	2035	0205	Not used
B	29	C	2947	00	Indexing scheme relating to extrusion moulding
B	29	C	2947	92	Measuring, controlling or regulating
B	29	C	2947	92009	Measured parameter
B	29	C	2947	92019	Pressure
B	29	C	2947	92028	ForceTension
B	29	C	2947	92038	Torque
B	29	C	2947	92047	Energy, power, electric current or voltage
B	29	C	2947	92057	Frequency
B	29	C	2947	92066	Time, e.g. start, termination, duration or interruption
B	29	C	2947	92076	Position, e.g. linear or angular
B	29	C	2947	92085	Velocity
B	29	C	2947	92095	Angular velocity
B	29	C	2947	92104	Flow or feed rate
B	29	C	2947	92114	Dimensions
B	29	C	2947	92123	Diameter or circumference
B	29	C	2947	92133	Width or height
B	29	C	2947	92142	Length
B	29	C	2947	92152	Thickness
B	29	C	2947	92161	Volume or quantity
B	29	C	2947	92171	Distortion, shrinkage, dilatation, swell or warpage
B	29	C	2947	9218	Weight
B	29	C	2947	9219	Density, e.g. per unit length or area
B	29	C	2947	922	ViscosityMelt flow index [MFI]Molecular weight
B	29	C	2947	92209	Temperature
B	29	C	2947	92219	Degree of crosslinking, solidification, crystallinity or homogeneity
B	29	C	2947	92228	Content, e.g. percentage of humidity, volatiles, contaminants or degassing
B	29	C	2947	92238	Electrical properties
B	29	C	2947	92247	Optical properties
B	29	C	2947	92257	Colour
B	29	C	2947	92266	Mechanical properties
B	29	C	2947	92276	Magnetic properties
B	29	C	2947	92285	Surface properties
B	29	C	2947	92295	Errors or malfunctioning, e.g. for quality control
B	29	C	2947	92304	Presence or absenceSequenceCounting
B	29	C	2947	92314	Particular value claimed
B	29	C	2947	92323	Location or phase of measurement
B	29	C	2947	92333	Raw material handling or dosing, e.g. active hopper or feeding device
B	29	C	2947	92342	Raw material pre-treatment, e.g. drying or cleaning
B	29	C	2947	92352	Inserts
B	29	C	2947	92361	Extrusion unit

B	29	C	2947	92371	Inlet shaft or slot, e.g. passive hopperInjector, e.g. injector nozzle on barrel
B	29	C	2947	9238	Feeding, melting, plasticising or pumping zones, e.g. the melt itself
B	29	C	2947	9239	Screw or gear
B	29	C	2947	924	Barrel or housing
B	29	C	2947	92409	DieNozzle zone
B	29	C	2947	92419	Degassing unit
B	29	C	2947	92428	Calibration, after-treatment, or cooling zone
B	29	C	2947	92438	Conveying, transporting or storage of articles
B	29	C	2947	92447	Moulded article
B	29	C	2947	92457	Drive section, e.g. gearbox, motor or drive fluids
B	29	C	2947	92466	Auxiliary unit, e.g. for external melt filtering, re-combining or transfer between units
B	29	C	2947	92476	Fluids, e.g. for temperature control or of environment
B	29	C	2947	92485	Start-up, shut-down or parameter setting phaseEmergency shut-downMaterial changeTest or laboratory equipment or studies
B	29	C	2947	92495	Treatment of equipment, e.g. purging, cleaning, lubricating or filter exchange
B	29	C	2947	92504	Controlled parameter
B	29	C	2947	92514	Pressure
B	29	C	2947	92523	ForceTension
B	29	C	2947	92533	Torque
B	29	C	2947	92542	Energy, power, electric current or voltage
B	29	C	2947	92552	Frequency
B	29	C	2947	92561	Time, e.g. start, termination, duration or interruption
B	29	C	2947	92571	Position, e.g. linear or angular
B	29	C	2947	9258	Velocity
B	29	C	2947	9259	Angular velocity
B	29	C	2947	926	Flow or feed rate
B	29	C	2947	92609	Dimensions
B	29	C	2947	92619	Diameter or circumference
B	29	C	2947	92628	Width or height
B	29	C	2947	92638	Length
B	29	C	2947	92647	Thickness
B	29	C	2947	92657	Volume or quantity
B	29	C	2947	92666	Distortion, shrinkage, dilatation, swell or warpage
B	29	C	2947	92676	Weight
B	29	C	2947	92685	Density, e.g. per unit length or area
B	29	C	2947	92695	ViscosityMelt flow index [MFI]Molecular weight
B	29	C	2947	92704	Temperature
B	29	C	2947	92714	Degree of crosslinking, solidification, crystallinity or homogeneity
B	29	C	2947	92723	Content, e.g. percentage of humidity, volatiles, contaminants or degassing
B	29	C	2947	92733	Electrical properties
B	29	C	2947	92742	Optical properties
B	29	C	2947	92752	Colour
B	29	C	2947	92761	Mechanical properties
B	29	C	2947	92771	Magnetic properties
B	29	C	2947	9278	Surface properties
B	29	C	2947	9279	Errors or malfunctioning, e.g. for quality control

B	29	C	2947	928	Presence or absenceSequenceCounting
B	29	C	2947	92809	Particular value claimed
B	29	C	2947	92819	Location or phase of control
B	29	C	2947	92828	Raw material handling or dosing, e.g. active hopper or feeding device
B	29	C	2947	92838	Raw material pre-treatment, e.g. drying or cleaning
B	29	C	2947	92847	Inserts
B	29	C	2947	92857	Extrusion unit
B	29	C	2947	92866	Inlet shaft or slot, e.g. passive hopperInjector, e.g. injector nozzle on barrel
B	29	C	2947	92876	Feeding, melting, plasticising or pumping zones, e.g. the melt itself
B	29	C	2947	92885	Screw or gear
B	29	C	2947	92895	Barrel or housing
B	29	C	2947	92904	DieNozzle zone
B	29	C	2947	92914	Degassing unit
B	29	C	2947	92923	Calibration, after-treatment or cooling zone
B	29	C	2947	92933	Conveying, transporting or storage of articles
B	29	C	2947	92942	Moulded article
B	29	C	2947	92952	Drive section, e.g. gearbox, motor or drive fluids
B	29	C	2947	92961	Auxiliary unit, e.g. for external melt filtering, re-combining or transfer between units
B	29	C	2947	92971	Fluids, e.g. for temperature control or of environment
B	29	C	2947	9298	Start-up, shut-down or parameter setting phaseEmergency shut-downMaterial changeTest or laboratory equipment or studies
B	29	C	2947	9299	Treatment of equipment, e.g. purging, cleaning, lubricating or filter exchange
B	29	C	47	00	Extrusion moulding, i.e. expressing the moulding material through a die or nozzle which imparts the desired formApparatus therefor extrusion blow-moulding B29C49/04
B	29	C	47	0002	Small extruders, e.g. handheld extruders or laboratory extruders
B	29	C	47	0004	characterised by the choice of material
B	29	C	47	0007	Extruding materials comprising incompatible ingredients
B	29	C	47	0009	characterised by the shape of the articles
B	29	C	47	0011	Particle-shaped making granules B29B9/00
B	29	C	47	0014	Filamentary-shaped articles, e.g. strands making granules in the form of filamentary material B29B9/06
B	29	C	47	0016	Rod-shaped articles
B	29	C	47	0019	Flat rigid articles, e.g. panels, plates
B	29	C	47	0021	Flat flexible articles, e.g. sheets, foils or films
B	29	C	47	0023	Hollow rigid articles having only one tubular passage
B	29	C	47	0026	Hollow flexible articles, e.g. blown foils or films
B	29	C	47	0028	Multi-passage hollow articles, e.g. having at least two holes, e.g. honeycomb articles
B	29	C	47	003	Articles having cross-sectional irregularities, i.e. being non-flat or having cylindrical cross-sections perpendicular to the extrusion direction
B	29	C	47	0033	Articles having longitudinal irregularities, i.e. the cross-section being non-constant in the extrusion direction
B	29	C	47	0035	Curved articles
B	29	C	47	0038	Combined shaping operations
B	29	C	47	004	Extrusion moulding combined with compression moulding compression moulding in general B29C43/00

B	29	C	47	0042	Extrusion moulding combined with shaping by internal pressure generated in the material, e.g. foaming shaping by internal pressure generated in the material, e.g. foaming, in general B29C44/00
B	29	C	47	0045	Extrusion moulding in several steps, i.e. components merging outside the die B29C47/02 takes precedence
B	29	C	47	0047	producing flat articles having components brought in contact outside the extrusion die
B	29	C	47	005	producing hollow articles having components brought in contact outside the extrusion die
B	29	C	47	0052	using a plurality of extrusion dies
B	29	C	47	0054	Extrusion moulding combined with blow-moulding or thermoforming blow-moulding in general B29C49/00; thermoforming in general B29C51/00
B	29	C	47	0057	Extrusion moulding combined with shaping by orienting, stretching or shrinking, e.g. film blowing B29C47/0054 takes precedence; shaping by stretching in general B29C55/00; shaping by liberation of internal stresses in general B29C61/00
B	29	C	47	0059	Extrusion moulding combined with shaping by flattening, folding or bending bending, folding or flattening in general B29C53/00
B	29	C	47	0061	Extrusion moulding combined with surface shaping surface shaping in general B29C59/00
B	29	C	47	0064	Extrusion moulding combined with joining, lining or laminating joining in general B29C65/00; lining in general B29C63/00; laminating in general B32B37/00
B	29	C	47	0066	Extrusion moulding combined with cutting
B	29	C	47	0069	Extrusion moulding combined with printing or marking
B	29	C	47	0071	extruding under particular conditions, e.g. in particular environments or using vacuum or vibrations
B	29	C	47	0073	extruding in a clean room
B	29	C	47	0076	using force fields, e.g. gravity or electrical fields B29C47/887 takes precedence
B	29	C	47	0078	at a location before or in the feed unit, e.g. influencing the material in the hopper
B	29	C	47	008	at the plasticising zone
B	29	C	47	0083	at a venting zone
B	29	C	47	0085	in the die
B	29	C	47	0088	after the die nozzle
B	29	C	47	009	at the die nozzle exit zone
B	29	C	47	0092	at a calibration zone
B	29	C	47	0095	at a conveyor
B	29	C	47	0097	at a storing zone
B	29	C	47	02	incorporating preformed parts or layers, e.g. extrusion moulding around inserts or for coating articles
B	29	C	47	021	Coating hollow articles
B	29	C	47	022	Coating the interior of hollow articles
B	29	C	47	023	Coating the inner and outer surfaces of hollow reinforcement
B	29	C	47	025	Coating non-hollow articles
B	29	C	47	026	partially
B	29	C	47	027	Simultaneous coating of more than one article
B	29	C	47	028	Coating discontinuous element or linked elements

					of multilayered or multi-component, e.g. co-extruded layers or components or
B	29	C	47	04	multicoloured articles or coloured articlesadapter blocks B29C47/56
B	29	C	47	043	Coloured articles
					comprising a multi-coloured single component, e.g. striated, marbled or wood-
B	29	C	47	046	like patterned
B	29	C	47	06	Multilayered articles or multi-component articles
					comprising six or more components, i.e. each component being counted once
B	29	C	47	061	for each time it is present, e.g. in a layer
					with components adjacent to each other, i.e. components merging at their
B	29	C	47	062	short sides
B	29	C	47	064	in the form of a thin strip, e.g. in the form of a helical pattern or mark lines
					with components in layered configuration, i.e. components merging at their
B	29	C	47	065	long sides
					using means for adhering the layers or components, e.g. using tie layers,
B	29	C	47	067	irregularities or undercuts
					using means for avoiding adhering the layers or components, e.g. articles
B	29	C	47	068	comprising peelable layers
B	29	C	47	08	Component parts, details or accessoriesAuxiliary operations
B	29	C	47	0801	Drive or actuation means; Transmission means; Screw supporting means
B	29	C	47	0803	Shaft or screw supports, e.g. bearings
B	29	C	47	0805	Direct drives or gear boxes
B	29	C	47	0806	Drive or actuation means for non-plasticising purposes, e.g. dosing unit
B	29	C	47	0808	Sealing means
B	29	C	47	081	for filters
					Flow control means, i.e. adjustable parts, e.g. valves throttling of flow
B	29	C	47	0811	B29C47/0871
					in the feeding, melting, plasticising or pumping zone, e.g. screw, barrel, gear-
B	29	C	47	0813	pump or ram
B	29	C	47	0815	provided in or in the proximity of filter devices
					provided in or in the proximity of dies B29C47/124, B29C47/16, B29C47/22
B	29	C	47	0816	take precedence
B	29	C	47	0818	Exchangeable extruder parts B29C47/681 takes precedence
B	29	C	47	082	Mounting and handling of the screw
B	29	C	47	0822	Mounting and handling of the die
B	29	C	47	0823	Mounting and handling of the hopper or feeder
B	29	C	47	0825	Screw parts
B	29	C	47	0827	Barrel parts
B	29	C	47	0828	Die parts
B	29	C	47	083	Hopper or feeder parts
B	29	C	47	0832	Inserts
B	29	C	47	0833	for screws
B	29	C	47	0835	for barrels
B	29	C	47	0837	for dies
B	29	C	47	0838	General arrangement or layout of plants
					for extruding parallel streams of material, e.g. several separate parallel
					streams of extruded material forming separate articles B29C47/30,
B	29	C	47	084	B29C47/0045 take precedence

					Extruder machines or parts thereof characterised by the material or by their manufacturing process B29C47/0818 take precedence; making of dies
B	29	C	47	0842	B23P15/24
B	29	C	47	0844	Screws
B	29	C	47	0845	Material therefor, e.g. coating or lining
B	29	C	47	0847	Barrels
B	29	C	47	0849	Material therefor, e.g. coating or lining
B	29	C	47	085	Dies
B	29	C	47	0852	Material therefor, e.g. coating or lining
B	29	C	47	0854	Design of extruder parts, e.g. by modelling based on mathematical theories or experiments
B	29	C	47	0855	by modelling material flow, e.g. melt interaction with screw and barrel
B	29	C	47	0857	in the plasticising zone
B	29	C	47	0859	in the die zone
B	29	C	47	0861	of intermeshing screws
B	29	C	47	0862	by modelling of mechanical strength
B	29	C	47	0864	Machine bases, support structures or frames
B	29	C	47	0866	Means for allowing relative movements between the apparatus parts, e.g. for twisting the extruded article or for moving the die along a surface to be coated
B	29	C	47	0867	allowing small relative movement, e.g. adjustments for aligning the apparatus parts or for compensating for thermal expansion
B	29	C	47	0869	Intermediate treatments, e.g. relaxation, annealing or decompression step for the melt B29C47/76 takes precedence
B	29	C	47	0871	Throttling of the flow, e.g. for cooperating with plasticising elements or for degassing flow control means B29C47/0811
B	29	C	47	0872	Extrusion in non-steady condition, e.g. start-up or shut-down
B	29	C	47	0874	Material change
B	29	C	47	0876	Intermittent extrusion
B	29	C	47	0877	Cleaning, purging; Avoiding contamination for cleaning extruder parts
B	29	C	47	0879	of feeding units
B	29	C	47	0881	of plasticising units
B	29	C	47	0883	of dies
B	29	C	47	0884	of filters
B	29	C	47	0886	using back flow
B	29	C	47	0888	using scrapers
B	29	C	47	0889	of the extruded articles
B	29	C	47	0891	Recovering or reusing of energy, materials or the like
B	29	C	47	0893	of energy
B	29	C	47	0894	of materials
B	29	C	47	0896	of additives or processing aids
B	29	C	47	0898	Storing of the manufactured articles, e.g. winding up or stacking
B	29	C	47	10	Feeding the material to the extruder
B	29	C	47	1009	Raw material dosing
B	29	C	47	1018	Raw material pre-treatment while feeding pre-treatment of the material to be shaped in general B29B15/00; handling of the material to be shaped in general B29C31/00; B29C47/78 takes precedence
B	29	C	47	1027	in solid form, e.g. powder or granules
B	29	C	47	1036	of preformed parts, e.g. inserts that are fed and transported generally uninfluenced through the extruder or fed directly to the die

					of fibrous, filamentary or filling materials, e.g. thin fibrous reinforcements or
B	29	C	47	1045	fillers
B	29	C	47	1054	in band and/or in strip form, e.g. rubber strips
B	29	C	47	1063	in liquid form
B	29	C	47	1072	in gaseous form
					at several locations, e.g. using several hoppers or using a separate additive
B	29	C	47	1081	feeding
B	29	C	47	109	in a location other than through a barrel, e.g. through a screw
B	29	C	47	12	Extrusion nozzles or dies
B	29	C	47	122	having reciprocating, oscillating or rotating parts
B	29	C	47	124	being adjustable, i.e. having adjustable exit sections
					using dies or die parts movable in a closed circuit, e.g. mounted on movable
B	29	C	47	126	endless support B29C47/32 takes precedence
B	29	C	47	128	specially adapted for bringing together components, e.g. melts within the die
B	29	C	47	14	with broad opening, e.g. for sheets
B	29	C	47	145	specially adapted for bringing together components, e.g. melts within the die
B	29	C	47	16	being adjustable , i.e. having adjustable exit sections
B	29	C	47	165	by positioning the die lips
B	29	C	47	18	with die parts oscillating relative to each other
B	29	C	47	20	with annular opening, e.g. for tubular articles
B	29	C	47	22	being adjustable , i.e. having adjustable exit sections
B	29	C	47	225	with centering means
B	29	C	47	24	with die parts rotatable relative to each other
					Multiple annular extrusion nozzles specially adapted for bringing together
B	29	C	47	26	components, e.g. melts within the die
B	29	C	47	261	the components merging one by one down streams in the die
B	29	C	47	263	using a layered die, e.g. stacked discs
B	29	C	47	265	using a die with concentric parts, e.g. rings, cylinders
B	29	C	47	266	the components merging at a common location
B	29	C	47	268	using a die with concentric parts, e.g. rings, cylinders
B	29	C	47	28	Cross-head annular extrusion nozzles
					Multi-port extrusion nozzles for making granules in the form of filamentary
B	29	C	47	30	material B29B9/06
B	29	C	47	32	Roller-extrusion nozzles
B	29	C	47	34	Conveyors for extruded material B29C47/0898 takes precedence
					Means for plasticising or homogenising the moulding material or forcing it
B	29	C	47	36	through the nozzle or die
B	29	C	47	361	with the barrel or with a part thereof rotating
B	29	C	47	362	using static mixing devices
B	29	C	47	363	using non-actuated dynamic mixing devices
B	29	C	47	364	using gear pumps
					Multi stage plasticisers, homogenisers or feeders multi stage plasticisers using
B	29	C	47	365	at least two screws in the same barrel B29C47/50
B	29	C	47	366	using a first screw extruder and a second screw extruder
B	29	C	47	367	using a screw extruder and a gear pump
B	29	C	47	368	using a screw extruder and a ram or piston
B	29	C	47	369	Partial multi-stage
B	29	C	47	38	using screws surrounded by a cooperating barrel

B	29	C	47	385	using a single screw
B	29	C	47	40	using at least two parallel intermeshing screws or at least two parallel non-intermeshing screws
B	29	C	47	402	the screws having intermeshing parts
B	29	C	47	404	the screws having non-intermeshing parts
B	29	C	47	406	using non-identical or non-mirrored screws
B	29	C	47	408	using more than two screws B29C47/42 takes precedence
B	29	C	47	42	using sub-screws, e.g. planetary screws
B	29	C	47	44	using axially movable screws in relation to the barrel
B	29	C	47	46	using screws extruding in opposite directions , e.g. separate screws arranged after each other and feeding in opposite directions
B	29	C	47	48	using screws arranged coaxially, one within the other
B	29	C	47	50	using at least two screws in the same barrel, one after the other, e.g. multi stage plasticisers
B	29	C	47	52	using rollers or discs
B	29	C	47	522	using rollers
B	29	C	47	525	using single rollers, e.g. provided with protrusions, closely surrounded by a housing with movement of the material in the axial direction
B	29	C	47	527	Cavity transfer mixing devices, i.e. a roller and surrounding barrel both provided with cavities; Barrels and rollers therefor
B	29	C	47	54	using press rams or pistons or accumulators
B	29	C	47	56	using more than one extruder to feed one die
B	29	C	47	58	Details
B	29	C	47	585	Extruder feed section
B	29	C	47	60	Screws screws characterized by the material or by their manufacturing process B29C47/0844
B	29	C	47	6006	Hollow screws, i.e. comprising flow passage inside the screws
B	29	C	47	6012	having varying outer diameter, e.g. screws with a conical part
B	29	C	47	6018	having varying channel depth
B	29	C	47	6025	having variable channel pitch
B	29	C	47	6031	having forward feeding elements
B	29	C	47	6037	having reverse feeding elements
B	29	C	47	6043	having grooves or cavities
B	29	C	47	605	having projections with a short length in the screw direction, e.g. pins
B	29	C	47	6056	having kneading disc like elements, e.g. staggered discontinuous elements with a generally oval cross section
B	29	C	47	6062	having shear ring like elements, i.e. with a generally circular cross section
B	29	C	47	6068	having gears, i.e. interacting with the flow
B	29	C	47	6075	characterised by thread details, i.e. by the special shape of a single thread, e.g. by irregularities within one thread
B	29	C	47	6081	characterised by valley details, i.e. by the special shape of a single valley, e.g. by irregularities within one valley
B	29	C	47	6087	characterised by the length of the screw or of a section
B	29	C	47	6093	having parts without mixing elements, e.g. having cylinder shaped sections
B	29	C	47	62	having more than one screw-thread , i.e. the screw cross section showing at least two threads
B	29	C	47	622	the neighbouring threads and channels having identical configurations

					the neighbouring threads or channels having different configurations, e.g. one flight having constantly a smaller diameter or height than the neighbouring
B	29	C	47	625	flight
B	29	C	47	627	being multi-flight and having three or more flights
B	29	C	47	64	having incorporated mixing devices B29C47/6006 - B29C47/627 take precedence
B	29	C	47	66	Barrels or cylinders
B	29	C	47	661	for single screws
B	29	C	47	662	for twin screws
B	29	C	47	663	for more than two screws
B	29	C	47	664	having adaptable feed or discharge locations, e.g. for varying the amount of kneading by changing hopper position or discharge exit
B	29	C	47	665	with irregular inner surfaces
B	29	C	47	666	having grooves or cavities
B	29	C	47	667	having projections with a short length in the barrel direction, e.g. pins
B	29	C	47	668	having threads
B	29	C	47	68	Filters ; Screens
B	29	C	47	681	Filtering devices with at least two parallel filters to be used alternately; Movable filters and changing mechanisms therefor
B	29	C	47	682	the filters being fitted on a single rectilinearly reciprocating slide B29C47/685 takes precedence
B	29	C	47	683	the filters being fitted on a rotatable or pivotable disc or on the circumference of a rotatable or pivotable cylinder
B	29	C	47	684	Continuously rotating cylindrical filters
B	29	C	47	685	the filters being in the form of a continuous web displaceable to utilise adjacent areas consecutively
B	29	C	47	686	Substantially flat filters mounted at the end of an extruder screw and perpendicular to its axis B29C47/681 takes precedence
B	29	C	47	687	Cylindrical or conical filters B29C47/681 takes precedence
B	29	C	47	688	surrounding a rotating screw
B	29	C	47	70	Flow dividers
B	29	C	47	702	comprising means for dividing, distributing and recombining melt flows
B	29	C	47	705	in the die zone, e.g. to create flow homogeneity
B	29	C	47	707	component or layer multiplying
B	29	C	47	72	Feedback means
B	29	C	47	725	for plasticising or homogenising devices
B	29	C	47	74	By-pass means
B	29	C	47	745	for plasticising or homogenising devices
B	29	C	47	76	Venting, drying or degassing means
B	29	C	47	761	the vented material being in liquid form
B	29	C	47	762	Vapour stripping
B	29	C	47	763	Vent constructions, e.g. venting means avoiding melt escape
B	29	C	47	765	in the extruder apparatus
B	29	C	47	766	in screw extruders
B	29	C	47	767	through a degassing opening of a barrel
B	29	C	47	768	outside the apparatus, e.g. after the die
B	29	C	47	78	Heating or cooling the material to be extruded or the stream of extruded material or of a preformed part
B	29	C	47	782	of a preformed part, e.g. a core before entering a die or before entering a barrel

B	29	C	47	784	at a location before the plasticising zone, e.g. of the material in the hopper
B	29	C	47	786	heating
B	29	C	47	788	cooling
B	29	C	47	80	at plasticising zone , e.g. from the feed section until the die entrance
B	29	C	47	802	heating
B	29	C	47	805	cooling
B	29	C	47	807	characterised by differential heating or cooling
B	29	C	47	82	Heating or cooling the cylinders
B	29	C	47	822	heating
B	29	C	47	825	cooling
B	29	C	47	827	characterised by differential heating or cooling
B	29	C	47	84	Heating or cooling the screws
B	29	C	47	842	heating
B	29	C	47	845	cooling
B	29	C	47	847	characterised by differential heating or cooling
B	29	C	47	86	at nozzle zone
B	29	C	47	862	heating
B	29	C	47	864	cooling
B	29	C	47	866	characterised by differential heating or cooling
B	29	C	47	868	in the direction of the stream of the material
B	29	C	47	88	Heating or cooling the stream of extruded material
B	29	C	47	8805	Heating
B	29	C	47	881	of hollow articles
B	29	C	47	8815	cooling
B	29	C	47	882	of hollow articles
B	29	C	47	8825	of tubular films
B	29	C	47	883	internally
B	29	C	47	8835	externally
B	29	C	47	884	of flat articles, e.g. using specially adapted supporting means
B	29	C	47	8845	cooling drums
B	29	C	47	885	Endless cooling belts
B	29	C	47	8855	with means for improving the adhesion to the supporting means
B	29	C	47	886	Pressure rollers
B	29	C	47	8865	using vacuum
B	29	C	47	887	Electrostatic pinning
B	29	C	47	8875	by applying pressurised gas to the surface of the flat article
B	29	C	47	888	by interposing a fluid layer between the supporting means and the flat article
B	29	C	47	8885	characterized by differential heating or cooling
B	29	C	47	889	in the direction of the stream of the material
B	29	C	47	8895	using a bath, e.g. extruding into an open bath to coagulate or cool the material
B	29	C	47	90	with calibration or sizing
B	29	C	47	901	of hollow bodies
B	29	C	47	902	internally
B	29	C	47	903	externally
B	29	C	47	904	using dry calibration, i.e. no quenching tank, e.g. with water spray for cooling or lubrication
B	29	C	47	905	using wet calibration, i.e. in a quenching tank

B	29	C	47	906	using roller calibration
B	29	C	47	907	using adjustable calibrators, e.g. the dimensions of the calibrator being changeable
B	29	C	47	908	characterised by calibrator surface, e.g. structure or holes for lubrication, cooling or venting
B	29	C	47	92	Measuring, controlling or regulating
B	29	C	47	94	Lubricating , e.g. adding lubrication to the melt
B	29	C	47	96	Safety devices
B	29	C	47	965	Personnel safety, e.g. safety for the operator
B	29	C	67	0051	Rapid manufacturing and prototyping of 3D objects by additive depositing, agglomerating or laminating of plastics material, e.g. by stereolithography or selective laser sintering stereolithographic techniques for making dental prostheses A61C13/0013; selective sintering of metallic powder B22F3/1055; from ceramic or cementitious material B28B1/00; photomechanical, e.g. photolithographic, production of textured or patterned surfaces G03F7/00; selective printers for printing on three-dimensional objects B41J3/4073
B	29	C	67	0055	using only liquids or viscous materials, e.g. depositing a continuous bead of viscous material
B	29	C	67	0059	using individual droplets, e.g. from jetting heads
B	29	C	67	0062	using layers of liquid which are selectively solidified
B	29	C	67	0066	by a concentrated source of energy, e.g. a scanning laser or a focused light source
B	29	C	67	007	by a source of energy not covered by B29C67/0066, e.g. by global irradiation combined with a mask
B	29	C	67	0074	using only solid materials, e.g. laminating sheet material precut to local cross sections of the 3D object
B	29	C	67	0077	using layers of powder being selectively joined, e.g. by selective laser sintering or melting
B	29	C	67	0081	using a combination of solid and liquid materials, e.g. a powder selectively bound by a liquid binder, catalyst, inhibitor or energy absorber
B	29	C	67	0085	Apparatus components, details or accessories
B	29	C	67	0088	for control or data processing, e.g. algorithms
B	29	C	67	0092	Support structures for the 3D object during manufacture, e.g. using sacrificial material
B	29	C	67	0096	for cleaning or recycling
B	31	B	1	00	Box, carton, envelope or bag making machinery characterised by performing specific operations machinery for performing operations of general application, see the appropriate subclasses
B	31	B	1	02	Feeding or positioning sheets, blanks, or webs
B	31	B	1	04	Feeding sheets or blanks
B	31	B	1	06	from stacks B31B5/76 takes precedence
B	31	B	1	08	during envelope or bag-making operations
B	31	B	1	10	Feeding or positioning webs
B	31	B	1	12	by air pressure or suction B31B1/06 takes precedence
B	31	B	1	14	Cutting, e.g. perforating, punching, slitting, trimming means for removing cut-out material or waste B26D7/18
B	31	B	1	16	Cutting webs to form sheets or blanks
B	31	B	1	18	Slitting webs longitudinally

					Cutting sheets or blanks , e.g. cutting corners, or involving scoring or printing or embossing surface scoring per seB31B1/25; printing or embossing per
B	31	B	1	20	seB31B1/88
B	31	B	1	22	NotchingTrimming edges of flaps
B	31	B	1	24	Making window openings
B	31	B	1	25	Surface scoring cutting through material B31B1/14
B	31	B	1	26	Folding sheets, blanks, or webs
B	31	B	1	28	around mandrels, including bottom-forming operations
B	31	B	1	30	the mandrels moving
B	31	B	1	32	in circular paths
B	31	B	1	34	about their own axes
B	31	B	1	36	by continuously feeding same to stationary members, e.g. plates, ploughs, cores
B	31	B	1	38	the members being forming-tubes
B	31	B	1	40	acting internally
B	31	B	1	42	acting externally
B	31	B	1	44	by plungers moving through folding dies
B	31	B	1	46	and interconnecting side walls during such movement
B	31	B	1	48	by folding or tucking-in locking flaps
B	31	B	1	50	by interengaging tongues and slots
B	31	B	1	52	by reciprocating or oscillating members, e.g. fingers, other than plungers or dies
B	31	B	1	54	operating on moving material
B	31	B	1	56	by rotary members co-operating with blades
B	31	B	1	58	by moving endless belts
B	31	B	1	60	Uniting opposed surfaces or edgesTaping
B	31	B	1	62	by adhesives
B	31	B	1	64	by applying heat or pressure
B	31	B	1	66	high-frequency electric heating
B	31	B	1	68	by stitching, stapling, or riveting
B	31	B	1	70	by corner stapling
B	31	B	1	72	by applying or securing strips or sheets on already formed boxes B31B3/72; delivering and applying strips, sheets, tape in general B65H35/00
B	31	B	1	74	Auxiliary operations; Parts; Components
B	31	B	1	76	Opening or distending flattened articles
B	31	B	1	78	mechanically
B	31	B	1	80	pneumatically
B	31	B	1	82	Attaching windows
B	31	B	1	84	Forming valves or applying valve inserts; Applying rigid valves, spouts, filling tubesconnection of valves to inflatable elastic bodies B60C29/00
B	31	B	1	86	Forming integral handles or mounting separate handles making separate handles by multi-step processes B31D1/06
B	31	B	1	88	Printing or embossing
B	31	B	1	90	Attaching accessories not otherwise provided for, e.g. opening or closure devices, tear strings
B	31	B	1	92	Delivering B31B19/92 takes precedence
B	31	B	1	94	singly or in succession
B	31	B	1	96	in overlapping arrangement
B	31	B	1	98	in stacks or bundles

B	31	B	11	00	Machinery characterised by making boxes or cartons having partitions or like inserts not integral with walls making partitions, inserts, or reinforcements for boxes or cartons B31D
B	31	B	13	00	Machinery characterised by assembling drawer-and-shell boxes or cartons
B	31	B	15	00	Machinery characterised by making covered or externally-reinforced boxes or cartons B31B7/00 takes precedence
B	31	B	15	02	and having means for feeding or positioning sheets, blanks, or webs
B	31	B	17	00	Machinery characterised by making other boxes or cartons by assembling several separate sheets, blanks, or webs
B	31	B	17	60	and having means for uniting opposed surfaces or edges, or for taping
B	31	B	17	74	and having means for effecting auxiliary operations
B	31	B	19	00	Machinery for making envelopes or bags Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents B31B21/00, B31B23/00 take precedence
B	31	B	19	02	and having means for feeding or positioning sheets, blanks, or webs
B	31	B	19	10	Feeding or positioning webs
B	31	B	19	14	and having means for cutting, e.g. perforating, punching, slitting, trimming
B	31	B	19	16	Cutting webs to form sheets or blanks
B	31	B	19	18	Slitting webs longitudinally
B	31	B	19	20	Cutting sheets or blanks, e.g. applying corner cuts
B	31	B	19	26	and having means for folding sheets, blanks, or webs
B	31	B	19	36	by continuously feeding same to stationary members, e.g. plates, ploughs, cores
B	31	B	19	52	by reciprocating or oscillating members, e.g. fingers, other than plungers or dies
B	31	B	19	60	and having means for uniting opposed surfaces or edges, or for taping
B	31	B	19	62	by adhesives
B	31	B	19	64	by applying heat or pressure for block bottom bags B31B29/60
B	31	B	19	66	high-frequency electric heating
B	31	B	19	68	by stitching, stapling or riveting
B	31	B	19	74	Auxiliary operations; Parts; Components
B	31	B	19	82	Attaching windows
B	31	B	19	84	Forming valves or applying valve inserts
B	31	B	19	86	Forming integral handles or mounting separate handles making separate handles by multi-step processes B31D1/06
B	31	B	19	88	Printing or embossing
B	31	B	19	90	Attaching accessories not otherwise provided for, e.g. opening or closure devices, tear strings patches
B	31	B	19	92	Delivering
B	31	B	19	94	singly or in succession
B	31	B	19	96	in overlapping arrangement
B	31	B	19	98	in stacks or bundles
B	31	B	21	00	Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents, from sheets or blanks, e.g. from flattened tubes , e.g. making mailing envelopes
B	31	B	2201	00	Specific operations carried out during box making
B	31	B	2201	02	Feeding or positioning webs, blanks or boxes

B	31	B	2201	0205	Feeding or positioning webs
B	31	B	2201	0211	involving air pressure or vacuum
B	31	B	2201	0217	using rolls, belts or chains
B	31	B	2201	0223	involving aligning
B	31	B	2201	0229	involving changing orientation or changing direction of transport
B	31	B	2201	0235	Feeding or positioning blanks
B	31	B	2201	0241	by air pressure or vacuum
B	31	B	2201	0247	using rolls, belts or chains
B	31	B	2201	0252	involving aligning
B	31	B	2201	0258	involving changing orientation or changing direction of transport
B	31	B	2201	0264	from stacks
B	31	B	2201	027	from the underside of a magazine
B	31	B	2201	0276	by being moved in the plane they are lying in
B	31	B	2201	0282	from above a magazine
B	31	B	2201	0288	Holders for feeding or positioning blanks or webs
B	31	B	2201	0294	the holders rotating, e.g. star wheels, drums
B	31	B	2201	14	Cutting, perforating, punching, slitting, trimming
B	31	B	2201	141	using presses or dies
B	31	B	2201	142	using tools mounted on belts or chains
B	31	B	2201	143	using tools mounted on a drum
B	31	B	2201	145	Cutting webs
B	31	B	2201	146	cutting or slitting webs longitudinally
B	31	B	2201	147	Cutting blanks
B	31	B	2201	148	NotchingTrimming edges of flaps
B	31	B	2201	22	Shaping, other-wise than folding, sheet material under pressure
B	31	B	2201	223	Using punches or dies
B	31	B	2201	226	Modifying the shape of tubular boxes, of paper bottle necks
B	31	B	2201	24	Prebreaking
B	31	B	2201	25	Surface scoring
B	31	B	2201	252	using presses or dies
B	31	B	2201	255	using tools mounted on belts or chains
B	31	B	2201	257	using tools mounted on a drum
B	31	B	2201	26	Folding blanks or webs
B	31	B	2201	2604	around mandrels
B	31	B	2201	2608	the mandrels moving
B	31	B	2201	2612	the mandrels being mounted on a drum, or a wheel
B	31	B	2201	2616	the mandrels extending radially from the periphery of the drum
B	31	B	2201	262	the mandrels being parallel to the axis of the drum
B	31	B	2201	2625	the mandrels extending tangentially to the periphery of the drum
B	31	B	2201	2629	the mandrels rotating about their own axes
B	31	B	2201	2633	involving stripping-off formed boxes from mandrels
B	31	B	2201	2637	by continuously feeding same to stationary members, e.g. plates, ploughs, cores
B	31	B	2201	2641	the members being forming-tubes
B	31	B	2201	2645	acting internally
B	31	B	2201	265	acting externally
B	31	B	2201	2654	by plungers moving through folding dies
B	31	B	2201	2658	having several cooperating plungers and dies fitted on a rotating table or on moving chains

					having several plungers moving in a closed path and cooperating with
B	31	B	2201	2662	stationary folding dies
B	31	B	2201	2666	involving interconnecting side walls
					by reciprocating or oscillating members, e.g. fingers, other than plungers or
B	31	B	2201	267	dies
B	31	B	2201	2675	operating on moving material
B	31	B	2201	2679	by rotary members co-operating with blades
B	31	B	2201	2683	by moving belts or chains
B	31	B	2201	2687	by air jets
B	31	B	2201	2691	involving folding leading or trailing flaps of blanks
B	31	B	2201	2695	involving corrugating or pleating
					Straightening the side walls of boxes, squaring collapsed folded box blanks,
B	31	B	2201	27	deforming boxes
B	31	B	2201	28	Opening or distending flattened boxes
B	31	B	2201	281	mechanically
B	31	B	2201	282	by pushing the opposite ends of collapsed blanks towards each other
B	31	B	2201	283	for setting-up boxes having their opening facing upwardly
B	31	B	2201	284	by introducing opening fingers in the collapsed blanks
B	31	B	2201	285	by rotating fingers or with several fingers moving relatively to each other
					by introducing the blanks into undeformable holders, e.g. on a drum or on
B	31	B	2201	286	chains
B	31	B	2201	287	pneumatically
B	31	B	2201	288	for setting-up boxes having their opening facing upwardly
B	31	B	2201	289	with several suction devices on a rotating element
B	31	B	2201	29	Closing boxes
B	31	B	2201	292	the boxes having their opening facing in horizontal direction
B	31	B	2201	295	the boxes having their opening facing upwardly
B	31	B	2201	297	the boxes being cylindrical
B	31	B	2201	60	Uniting opposed surfaces or edgesTaping
B	31	B	2201	6004	by injecting of thermoplastic material for uniting opposed edges
B	31	B	2201	6008	by adhesives
B	31	B	2201	6013	Applying glue on already formed boxes
B	31	B	2201	6017	Applying glue on blanks
B	31	B	2201	6021	Arrangements for permitting the glue to set
B	31	B	2201	6026	by applying heat or pressure
B	31	B	2201	603	using sealing jaws or sealing dies
B	31	B	2201	6034	Making seals parallel to the direction of movement, i.e. longitudinal sealing
B	31	B	2201	6039	Making seals transversally to the direction of movement
B	31	B	2201	6043	using tools mounted on belts or chains
B	31	B	2201	6047	using tools mounted on a drum
B	31	B	2201	6052	by stitching, stapling, or riveting
					for closing the bottom flaps of boxes, or for securing bottoms or caps to box
B	31	B	2201	6056	bodies
B	31	B	2201	606	for joining the overlapping edges of collapsed blanks to form tubular blanks
B	31	B	2201	6065	for attaching hinged covers to boxes
B	31	B	2201	6069	by corner stapling
B	31	B	2201	6073	by applying or securing strips or tape
B	31	B	2201	6078	on already formed boxes

					Applying tape on the corners of set-up boxes (box staying), e.g. involving
B	31	B	2201	6082	setting-up
B	31	B	2201	6086	for uniting meeting edges of collapsed boxes
B	31	B	2201	6091	by folding or tucking-in locking flaps
B	31	B	2201	6095	and interengaging tongues and slots
B	31	B	2201	61	MoisteningDryingCoolingHeatingSterilizing
B	31	B	2201	62	CoatingImpregnatingWater proofingDecoating
B	31	B	2201	621	Coating or impregnating edges or corners
B	31	B	2201	622	Coating or impregnating formed boxes
B	31	B	2201	624	Coating or impregnating blanks or webs
B	31	B	2201	625	by immersing in a bath
B	31	B	2201	627	by spraying
B	31	B	2201	628	by only spraying the interior of the boxes
B	31	B	2201	88	Printing, marking, embossing
B	31	B	2201	90	Forming or attaching accessories
B	31	B	2201	9004	Applying strips, strings, lace or like ornamental edging to formed boxes
B	31	B	2201	9009	Applying tabs, patches, strips or strings on blanks or webs
B	31	B	2201	9014	Applying tabs on corners of box blanks
B	31	B	2201	9019	Applying patches
B	31	B	2201	9023	the blanks remaining stationary during application of the patches
B	31	B	2201	9028	the patches being taken out of a magazine
B	31	B	2201	9033	Applying strips or strings, e.g. tear strips or strings
B	31	B	2201	9038	parallel to the direction of movement of the webs or the blanks
B	31	B	2201	9042	perpendicular to the direction of movement of the webs or the blanks
B	31	B	2201	9047	the webs or blanks remaining stationary during application of the strips or strings
B	31	B	2201	9052	the webs or blanks moving during application of the strips or strings
B	31	B	2201	9057	obliquely to the direction of movement of the webs or blanks or in an irregular path
B	31	B	2201	9061	Applying closure elements to blanks, webs or boxes
B	31	B	2201	9066	Applying button-and-string or washer like closure elements
B	31	B	2201	9071	Applying other closure elements, e.g. hook and loop-type fastener
B	31	B	2201	9076	Forming or attaching windows
B	31	B	2201	908	involving cutting window openings
B	31	B	2201	9085	Forming valves or applying valve inserts, e.g. rigid valves, spouts, filling tubes
B	31	B	2201	909	Forming integral handles or mounting separate handles
B	31	B	2201	9095	Fitting separate handles on boxes, e.g. on drinking cups
B	31	B	2201	92	Delivering
B	31	B	2201	922	singly or in succession
B	31	B	2201	925	in overlapping arrangement
B	31	B	2201	927	in stacks or bundles
B	31	B	2201	94	Involving a particular layout of the machinery or relative arrangement of its subunits
B	31	B	2201	95	ControllingRegulatingMeasuringImproving safety
B	31	B	2203	00	Making boxes by folding single-piece blanks, or webs
B	31	B	2203	003	Making collapsible boxesMaking boxes being in a collapsed condition at least during some of the manufacturing steps
B	31	B	2203	006	Collapsing already made boxes into a flat condition
B	31	B	2203	06	Making boxes characterised by their shape

B	31	B	2203	062	Making conical or pyramidal boxesMaking boxes of varying cross-section
B	31	B	2203	064	Making boxes of curved cross section
B	31	B	2203	066	Making boxes of polygonal cross section
B	31	B	2203	068	having non-square, non-rectangular cross section
B	31	B	2203	08	Making boxes characterised by the shape of the blank from which they are formed
B	31	B	2203	082	Making boxes from tubular webs or blanks, including tube or bottom forming operations
B	31	B	2203	084	Making boxes having all side walls attached to the bottom
B	31	B	2203	086	Making boxes having two opposite first side walls attached to the bottom, the other side walls being attached to the first side walls
B	31	B	2203	088	Making boxes by first folding a sheet to a U-shape, constituting the bottom and two first-side walls, after which the two other side walls are formed from these first side wall
B	31	B	2203	10	Involving forming accessories or reinforcements
B	31	B	2203	101	Making boxes having a hinged cover
B	31	B	2203	103	Making multi-compartment boxes
B	31	B	2203	105	Making boxes having integral corner posts or reinforcements
B	31	B	2203	106	Making boxes having contracted or rolled necks, having shoulders
B	31	B	2203	108	Making boxes, the bottom of which includes a rim projecting at the edges
B	31	B	2217	00	Making boxes by assembling several separate blanks, or websmaking lined boxesmaking boxes from laminated blanks or webs
B	31	B	2217	0007	Making collapsible boxesMaking boxes being in a collapsed condition at least during some of the manufacturing steps
B	31	B	2217	0015	Collapsing already made boxes into a flat condition
B	31	B	2217	0023	Making covered or externally-reinforced boxes
B	31	B	2217	003	Applying wrapping material only on the side wall part of a box
B	31	B	2217	0038	Making lined or internally-reinforced boxes
B	31	B	2217	0046	Applying a liner to already made boxes, e.g. including opening or distending of the liner or the box
B	31	B	2217	0053	using vacuum or pressure means to force the liner against the wall
B	31	B	2217	0061	the lining material being a web, a sheet or a bag to be forced into the box, e.g. by using heat, or a plunger
B	31	B	2217	0069	involving forming of the liner before inserting
B	31	B	2217	0076	Folding a sheet or blank around an inner tubular liner
B	31	B	2217	0084	Making boxes from laminated webs, e.g. including laminating the webs
B	31	B	2217	0092	Making drawer-and-shell boxes
B	31	B	2217	02	Making collapsible boxesMaking boxes being in a collapsed condition at least during some of the manufacturing steps
B	31	B	2217	06	Making boxes characterised by their geometry
B	31	B	2217	062	Making conical or pyramidal boxesMaking boxes of varying cross-section
B	31	B	2217	064	Making boxes of curved cross section
B	31	B	2217	066	Making boxes of polygonal cross section
B	31	B	2217	068	having non-square, non-rectangular cross section
B	31	B	2217	08	Making boxes characterised by the shape of the blanks from which they are formed
B	31	B	2217	082	Making boxes from tubular webs or blanks, e.g. with separate bottoms, including tube or bottom forming operations
B	31	B	2217	084	Making boxes having all side walls attached to the bottom
B	31	B	2217	086	Making boxes by uniting two U-shaped blanks

					Making boxes from blanks consisting of side wall panels integral with a bottom
B	31	B	2217	088	panel and additional side wall panels
B	31	B	2217	10	Involving forming accessories or reinforcements
B	31	B	2217	101	Making boxes having a cover
B	31	B	2217	103	Making multi-compartment boxes
B	31	B	2217	105	Inserting partitions in boxes or cartons
B	31	B	2217	106	Making boxes having corner posts or reinforcements
B	31	B	2217	108	Inserting necks in boxes, forming or applying shoulders
B	31	B	2219	00	Specific operations carried out during bag making
B	31	B	2219	02	Feeding or positioning webs, sheets or bags
B	31	B	2219	022	Feeding or positioning webs
B	31	B	2219	024	Feeding or positioning sheets
B	31	B	2219	026	Holders for feeding or positioning sheets or webs
B	31	B	2219	028	the holders rotating, e.g. star wheels, drums
B	31	B	2219	14	Cutting, perforating, punching, slitting, trimming
B	31	B	2219	141	using presses or dies
B	31	B	2219	142	using tools mounted on belts or chains
B	31	B	2219	143	using tools mounted on a drum
B	31	B	2219	145	Cutting webs
B	31	B	2219	146	slitting webs longitudinally
B	31	B	2219	147	Cutting sheets
B	31	B	2219	148	Cutting-out portions from the sides of webs or sheets
B	31	B	2219	22	Shaping, other-wise than folding, sheet material under pressure
B	31	B	2219	225	using punches or dies
B	31	B	2219	23	Stiffening, reinforcing bags
B	31	B	2219	25	Surface scoring
B	31	B	2219	252	using presses or dies
B	31	B	2219	255	using tools mounted on belts or chains
B	31	B	2219	257	using tools mounted on a drum
B	31	B	2219	26	Folding sheets or webs
B	31	B	2219	2609	around mandrels
B	31	B	2219	2618	the mandrels moving
B	31	B	2219	2627	by continuously feeding same to stationary members, e.g. plates, ploughs, cores
B	31	B	2219	2636	by plungers moving through folding dies
B	31	B	2219	2645	by reciprocating or oscillating members, e.g. fingers, other than plungers or dies
B	31	B	2219	2654	by rotary members co-operating with blades
B	31	B	2219	2663	by moving belts or chains
B	31	B	2219	2672	involving transversely folding, i.e. along a line perpendicular to the direction of movement
B	31	B	2219	2681	involving longitudinally folding, i.e. along a line parallel to the direction of movement
B	31	B	2219	269	involving gusset-forming
B	31	B	2219	28	Opening or distending bags
B	31	B	2219	29	Closing bags
B	31	B	2219	60	Uniting opposed surfaces or edgesTaping
B	31	B	2219	6007	by adhesives
B	31	B	2219	6015	Arrangements for permitting the glue to set
B	31	B	2219	6023	Applying glue on moving webs to form tubular webs

B	31	B	2219	603	by applying heat or pressure
B	31	B	2219	6038	using sealing jaws or sealing dies
B	31	B	2219	6046	on piled sheets, e.g. sealing bags arranged in a pile
B	31	B	2219	6053	Making seals parallel to the direction of movement, i.e. longitudinal sealing
B	31	B	2219	6061	Making seals transversally to the direction of movement
B	31	B	2219	6069	using tools mounted on belts or chains
B	31	B	2219	6076	using tools mounted on a drum
B	31	B	2219	6084	by stitching, stapling, or riveting
B	31	B	2219	6092	by applying or securing strips or tape
B	31	B	2219	61	MoisteningDryingCoolingHeating
B	31	B	2219	62	CoatingImpregnatingWater proofingDecoating
B	31	B	2219	88	Printing or embossing
B	31	B	2219	90	Forming or attaching accessories
B	31	B	2219	9003	Applying patches, strips or strings on sheets or webs
B	31	B	2219	9006	Applying patches
B	31	B	2219	9009	Applying strips
B	31	B	2219	9012	Applying closure elements
B	31	B	2219	9016	Making bags having interengaging closure elements
B	31	B	2219	9019	Applying the closure elements in the machine direction
B	31	B	2219	9022	Applying the closure elements in the cross direction
B	31	B	2219	9025	Applying stringsMaking string-closed bags
B	31	B	2219	9029	the strings being applied in the machine direction
B	31	B	2219	9032	the strings being applied in the cross direction
B	31	B	2219	9035	the ends of the strings being attached to the side edges of the bags
B	31	B	2219	9038	Forming or attaching windows
B	31	B	2219	9041	by making paper transparent or translucent, by applying transparent melt
B	31	B	2219	9045	involving applying window patches
B	31	B	2219	9048	involving cutting windows
B	31	B	2219	9051	Forming valves or applying valve inserts
B	31	B	2219	9054	Applying rigid valves, spouts, or filling tubes
B	31	B	2219	9058	Forming valves integral with the bags
B	31	B	2219	9061	by deforming, e.g. stretching, the bag
B	31	B	2219	9064	involving turning the bags inside out
B	31	B	2219	9067	Applying patches or flexible valve inserts, e.g. involving making of the inserts
B	31	B	2219	907	Applying valve inserts on tubular webs, e.g. from the inside
B	31	B	2219	9074	Forming integral handles or mounting separate handles
B	31	B	2219	9077	Mounting separate handles on bags, sheets or webs
B	31	B	2219	908	Applying handles on a moving web followed by longitudinal folding
B	31	B	2219	9083	Applying handles on a moving web followed by transverse folding
B	31	B	2219	9087	Applying handles on one side of a moving longitudinally folded web, e.g. after cutting a tubular web longitudinally, or on both sides of a moving web and folding this web longitudinally afterwards
B	31	B	2219	909	Forming integral handles on bags
B	31	B	2219	9093	involving punching or cutting
B	31	B	2219	9096	involving application of reinforcement strips or patchesinvolving reinforcements obtained by folding
B	31	B	2219	92	Delivering
B	31	B	2219	921	singly or in succession

B	31	B	2219	922	in overlapping arrangement
B	31	B	2219	923	by winding up
B	31	B	2219	924	the bags being interconnected
B	31	B	2219	925	in stacks or bundles
B	31	B	2219	926	involving folding of the bags
B	31	B	2219	927	Stacking bags on wicket pins
B	31	B	2219	928	Stacking bags by means of a rotary stacking drum
B	31	B	2219	929	Assembling or block-forming of bagsLoading bags on a mandrel
B	31	B	2219	94	Involving a particular layout of the machinery or relative arrangement of its subunits
B	31	B	2219	95	ControllingRegulatingMeasuringSafety measures
B	31	B	2221	00	Making bags from sheets
B	31	B	2221	05	the bags having multilayered walls, e.g. lined or laminated
B	31	B	2221	055	Applying liners in already made bags, e.g. including turning the bags inside out
B	31	B	2221	10	the bags having no structural provision at the base for thickness of content, e.g. flat bags
B	31	B	2221	102	obtained from essentially rectangular sheets
B	31	B	2221	105	obtained from rhombus shaped sheets
B	31	B	2221	107	obtained from sheets cut from larger sheets or webs before finishing the bag forming operations
B	31	B	2221	20	the bags having structural provision at the base for thickness of content
B	31	B	2221	25	the bags being of pointed or tapered shape
B	31	B	2221	40	involving square or cross bottom forming
B	31	B	2221	402	the bags having their openings facing in the direction of movement
B	31	B	2221	405	the bags having their openings facing transversally to the direction of movement
B	31	B	2221	407	starting from already formed bags
B	31	B	2221	50	involving joining superimposed sheets, e.g. with separate bottom sheets
B	31	B	2221	60	starting from tubular sheets
B	31	B	2237	00	Making bags from webs
B	31	B	2237	05	the bags having multilayered walls, e.g. lined or laminated
B	31	B	2237	055	involving folding a web about an already tubular web
B	31	B	2237	10	the bags having no structural provision at the base for thickness of content, e.g. flat bags
B	31	B	2237	20	the bags having structural provision at the base for thickness of content
B	31	B	2237	25	the bags being of pointed or tapered shape
B	31	B	2237	40	involving folding webs longitudinally
B	31	B	2237	403	the bags having their openings facing in the direction of movement
B	31	B	2237	406	the bags having their openings facing transversally to the direction of movement
B	31	B	2237	50	involving joining superimposed webs, e.g. with separate bottom webs
B	31	B	2237	60	starting from tubular webs
B	31	B	23	00	Machinery characterised by making rectangular envelopes or bags of flat form, i.e. without structural provision at the base for thickness of contents, from webs, e.g. from flattened tubular webs machinery characterised by cutting sheets or blanks from webs and working them to form such envelopes or bags B31B21/00
B	31	B	25	00	Machinery characterised by making pointed or tapered envelopes or bags
B	31	B	27	00	Machinery characterised by making interconnected envelopes or bags

					Machinery characterised by making envelopes or bags with structural provision at the base for thickness or contents B31B31/00 - B31B37/00 take
B	31	B	29	00	precedence; B31B31/00, B31B33/00, B31B35/00 takes precedence
B	31	B	29	60	and having means for uniting opposed surfaces or edges, or for taping
B	31	B	29	74	and having means for effecting auxiliary operations
B	31	B	29	84	Forming valves or applying valve inserts
					Machinery for making boxes or cartons Machinery characterised by making boxes or cartons by folding single-piece sheets, blanks, or webs B31B5/00
B	31	B	3	00	takes precedence
B	31	B	3	02	and having means for feeding or positioning sheets, blanks, or webs not used; seeB31B1/02
B	31	B	3	14	and having means for cutting, e.g. perforating, punching, slitting, trimming not used; seeB31B1/14
B	31	B	3	26	and having means for folding sheets, blanks, or webs
B	31	B	3	28	around mandrels, including bottom-forming operations
B	31	B	3	30	the mandrels moving , e.g. with independent mandrels or with mandrels fixed on an endless chain
B	31	B	3	32	in circular paths , e.g. with radially extending mandrels on a rotating drum
B	31	B	3	34	about their own axes
B	31	B	3	36	by continuously feeding same to stationary members, e.g. plates, ploughs, cores
B	31	B	3	44	by plungers moving through folding dies
B	31	B	3	46	and interconnecting side walls during such movement
B	31	B	3	48	by folding or tucking-in locking flaps
B	31	B	3	50	by interengaging tongues and slots
B	31	B	3	52	by reciprocating or oscillating members, e.g. fingers, other than plungers and dies
B	31	B	3	60	and having means for uniting opposed surfaces or edges, or for taping
B	31	B	3	64	by applying heat or pressure
B	31	B	3	72	by applying and securing strips or sheets on already formed boxes
B	31	B	3	74	and having means for effecting auxiliary operations
B	31	B	37	00	Machinery characterised by making envelopes or bags with structural provision at the base for thickness of contents from webs, e.g. from tubular webs machinery characterised by cutting sheets and blanks from webs and working them to form such envelopes or bags B31B21/00
B	31	B	39	00	Machinery characterised by making lined envelopes or bags
B	31	B	41	00	Machinery characterised by making envelopes or bags of other specific form or construction , i.e. not particularly otherwise provided for
B	31	B	43	00	Machinery characterised by making containers by shaping, other- wise than folding, sheet material under pressure
B	31	B	45	00	Machinery characterised by making containers having corrugated or pleated walls
B	31	B	47	00	Hand tools for making envelopes, bags, boxes or cartons
B	31	B	47	02	for making envelopes or bags without preshaped bottoms
B	31	B	47	04	for making envelopes or bags with preshaped bottoms
B	31	B	49	00	Machinery, accessories or processes not provided for in B31B1/00 - B31B47/00forms or constructions of boxes, cartons, envelopes or bags B65D
B	31	B	49	02	for making boxes or cartons
B	31	B	49	04	for making envelopes or bags

B	31	B	5	00	Machinery characterised by making boxes or cartons by folding single-piece sheets which can be set-up from a collapsed condition, including setting-up and recollapsing to break creases
B	31	B	5	02	and having means for feeding or positioning sheets not used; seeB31B1/02
B	31	B	5	14	and having means for cutting, e.g. perforating, punching, slitting, trimming not used; seeB31B1/14
B	31	B	5	26	and having means for folding sheets, blanks, or webs
B	31	B	5	36	by continuously feeding same to stationary members, e.g. plates, ploughs, cores
B	31	B	5	60	and having means for uniting opposed surfaces or edges, or for taping
B	31	B	5	74	and having means for effecting auxiliary operations
B	31	B	5	76	Opening or distending flattened articles , e.g. collapsed blanks, including arrangements therefor; Setting-up of boxes
B	31	B	5	78	mechanically
B	31	B	5	80	pneumatically , i.e. with suction cups for totally or partially opening the collapsed blanks or by introducing a jet of gas into the collapsed blanks, e.g. with means for recollapsing or breaking creases
B	31	B	50	001	Shaping, other than by folding, sheet material under pressure
B	31	B	50	0012	using punches or dies
B	31	B	50	0014	Modifying the shape of tubular boxes or of paper bottle necks
B	31	B	7	00	Machinery characterised by making lined or internally-reinforced boxes or cartons B31B11/00 takes precedence
B	31	B	7	26	and having means for folding sheets, blanks, or webs
B	31	B	7	28	around mandrels, including bottom-forming operations
B	31	B	7	30	the mandrels moving with independent mandrels or with mandrels fixed on an endless chain
B	31	B	7	32	in circular paths , e.g. with radially extending mandrels on a rotating drum
B	31	B	7	44	by plungers moving through folding dies
B	31	B	7	46	and interconnecting side walls during such movement
B	31	F	2201	071	Type and charactristics of the embossing toools not used
B	31	F	2201	0712	Other than rollers, e.g. belts, plates
B	32	B	7	005	in respect of orientation of features B32B5/12 takes precedence
B	32	B	7	045	the layers being not connected over the whole surface, e.g. discontinuous connection, patterned connection B32B7/14 takes precedence
B	60	J	2007	1208	Control devices
B	60	J	2007	1213	Fastening devices
B	60	J	2007	1217	Pretensioning devices closing the roof aperture when released
B	60	J	2007	1221	construction details of the arches
B	60	K	2741	00	Conjoint control of drive unitsConjoint control of at least two sub-units thereof
B	60	K	2741	003	Changing foot controls into hand controls, e.g. for invalid people
B	60	K	2741	006	using electrical means
B	60	K	2741	02	of propulsion unit and clutch
B	60	K	2741	025	using electrical means
B	60	K	2741	04	of propulsion unit and gearing
B	60	K	2741	045	using electrical means
B	60	K	2741	06	the gearing being stepped
B	60	K	2741	065	using electrical means
B	60	K	2741	08	with interruption of the drive

B	60	K	2741	085	using electrical means
B	60	K	2741	10	without interruption of the drive
B	60	K	2741	105	using electrical means
B	60	K	2741	12	the gearing being infinitely variable
B	60	K	2741	14	of mechanical type
B	60	K	2741	145	using electrical means
B	60	K	2741	16	of fluid type
B	60	K	2741	165	using electrical means
B	60	K	2741	18	of electric type, e.g. electromagnetic
B	60	K	2741	20	of propulsion unit and brake system
B	60	K	2741	205	using electrical means
B	60	K	2741	22	of clutch and gearing
B	60	K	2741	225	using electrical means
B	60	K	2741	24	of clutch and brake system
B	60	K	2741	245	using electrical means
B	60	K	2741	26	of gearing and brake system
B	60	K	2741	265	using electrical means
B	60	K	2741	28	of three or more sub-units
B	60	K	2741	283	using electrical means
B	60	K	2741	286	the sub-units being engine, clutch and gearing
					Conjoint control of drive units; Conjoint control of at least two sub-units thereof arrangement of plural diverse prime-movers for mutual or common propulsion
B	60	K	41	00	B60K6/00
B	60	K	41	002	Changing foot controls into hand controls, e.g. for invalid people
B	60	K	41	004	using electrical means
B	60	K	41	006	with analogue circuits, relays and switches
B	60	K	41	008	using hydraulic or pneumatic means
B	60	K	41	02	of propulsion unit and clutch
B	60	K	41	022	using electrical means
B	60	K	41	025	with analogue circuits, relays and switches
B	60	K	41	027	using hydraulic or pneumatic means
B	60	K	41	04	of propulsion unit and gearing
B	60	K	41	042	using electrical means
B	60	K	41	045	with analogue circuits, relays and switches
B	60	K	41	047	using hydraulic or pneumatic means
B	60	K	41	06	the gearing being stepped
B	60	K	41	062	using electrical means
B	60	K	41	065	with analogue circuits, relays and switches
B	60	K	41	067	using hydraulic or pneumatic means
B	60	K	41	08	with interruption of the drive
B	60	K	41	082	using electrical means
B	60	K	41	085	with analogue circuits, relays and switches
B	60	K	41	087	using hydraulic or pneumatic means
B	60	K	41	10	without interruption of the drive
B	60	K	41	102	using electrical means
B	60	K	41	105	with analogue circuits, relays and switches
B	60	K	41	107	using hydraulic or pneumatic means
B	60	K	41	12	the gearing being infinitely variable
B	60	K	41	14	of mechanical type
B	60	K	41	142	using electrical means

B	60	K	41	145	with analogue circuits, relays and switches
B	60	K	41	147	using hydraulic or pneumatic means
B	60	K	41	16	of fluid type
B	60	K	41	162	using electrical means
B	60	K	41	165	with analogue circuits, relays and switches
B	60	K	41	167	using hydraulic or pneumatic means
B	60	K	41	18	of electric type, e.g. electromagnetic
B	60	K	41	20	of propulsion unit and brake system
B	60	K	41	202	using electrical means
B	60	K	41	205	with analogue circuits, relays and switches
B	60	K	41	207	using hydraulic or pneumatic means
B	60	K	41	22	of clutch and gearing control of torque converter lock-up clutches F16H61/14
B	60	K	41	222	using electrical means
B	60	K	41	225	with analogue circuits, relays and switches
B	60	K	41	227	using hydraulic or pneumatic means
B	60	K	41	24	of clutch and brake system
B	60	K	41	242	using electrical means
B	60	K	41	245	with analogue circuits, relays and switches
B	60	K	41	247	using hydraulic or pneumatic means
B	60	K	41	26	of gearing and brake system
B	60	K	41	262	using electrical means
B	60	K	41	265	with analogue circuits, relays and switches
B	60	K	41	267	using hydraulic or pneumatic means
B	60	K	41	28	of three or more sub-units
B	60	K	41	282	using electrical means
B	60	K	41	284	the sub-units being engine, clutch and gearing
B	60	K	41	286	with analogue circuits, relays and switches
B	60	K	41	288	using hydraulic or pneumatic means
					Electric propulsion with power supplied within the vehicle B60L8/00, B60L13/00 take precedence; arrangements or mounting of plural diverse prime-movers for mutual or common propulsion B60K6/20; control systems
B	60	L	11	00	specially adapted for hybrid vehicles B60W20/00
B	60	L	11	002	using electric power supply other than engine driven generators, electrical or fuel-cells
B	60	L	11	005	using capacitors
B	60	L	11	007	using auxiliary power supplied by humans
B	60	L	11	02	using engine-driven generators
B	60	L	11	04	using dc generators and motors
B	60	L	11	06	using ac generators and dc motors
B	60	L	11	08	using ac generators and motors
B	60	L	11	10	using dc generators and ac motors
B	60	L	11	12	with additional electric power supply, e.g. accumulator
B	60	L	11	123	using range extenders, e.g. series hybrid vehicles
B	60	L	11	126	the range extender having low power output with respect to maximum power output of the vehicle
B	60	L	11	14	with provision for direct mechanical propulsion
B	60	L	11	16	using power stored mechanically, e.g. in flywheel
B	60	L	11	18	using power supply from primary cells, secondary cells, or fuel cells
B	60	L	11	1801	combined with an external power supply

B	60	L	11	1803	for vehicles propelled by ac-motors
B	60	L	11	1805	for vehicles propelled by dc-motors
B	60	L	11	1807	for vehicles propelled by position controlled motors
B	60	L	11	1809	Charging electric vehicles
B	60	L	11	1811	using converters
B	60	L	11	1812	Physical arrangements or structures of charging converters specially adapted for charging electric vehicles
B	60	L	11	1814	the vehicle's propulsion converter is used for charging
B	60	L	11	1816	by conductive energy transfer, e.g. connectors
B	60	L	11	1818	Adaptations of plugs or sockets for charging electric vehicles
B	60	L	11	182	by inductive energy transfer
B	60	L	11	1822	by exchange of energy storage elements, e.g. removable batteries
B	60	L	11	1824	Details of charging stations, e.g. vehicle recognition or billing B60L11/1811, B60L11/182, B60L11/1822 take precedence
B	60	L	11	1825	Charging columns for electric vehicles
B	60	L	11	1827	Automatic adjustment of relative position between charging device and vehicle
B	60	L	11	1829	for inductive energy transfer
B	60	L	11	1831	with position related activation of primary coils
B	60	L	11	1833	the vehicle being positioned
B	60	L	11	1835	with optical position determination, e.g. by a camera
B	60	L	11	1837	by charging in short intervals along the itinerary, e.g. during short stops
B	60	L	11	1838	Methods for the transfer of electrical energy or data between charging station and vehicle
B	60	L	11	184	Optimising energy costs, e.g. by charging depending on electricity rates
B	60	L	11	1842	Energy stored in the vehicle is provided to the network, i.e. vehicle to grid (V2G) arrangements
B	60	L	11	1844	the charging being dependent on network capabilities
B	60	L	11	1846	Identification of the vehicle
B	60	L	11	1848	Methods related to measuring, billing or payment
B	60	L	11	185	Fast charging
B	60	L	11	1851	Battery monitoring or controlling; Arrangements of batteries, structures or switching circuits therefore
B	60	L	11	1853	by battery splitting
B	60	L	11	1855	by series/parallel switching
B	60	L	11	1857	Battery age determination
B	60	L	11	1859	Preventing deep discharging
B	60	L	11	1861	Monitoring or controlling state of charge [SOC]
B	60	L	11	1862	Target range for state of charge [SOC]
B	60	L	11	1864	Control of a battery packs, i.e. of a set of batteries with the same voltage
B	60	L	11	1866	Balancing the charge of multiple batteries or cells
B	60	L	11	1868	Controlling two or more batteries with different voltages
B	60	L	11	187	Battery temperature regulation
B	60	L	11	1872	by control of electric loads
B	60	L	11	1874	by cooling
B	60	L	11	1875	by heating
B	60	L	11	1877	Arrangements of batteries
B	60	L	11	1879	Adaptation of battery structures for electric vehicles
B	60	L	11	1881	Fuel cells monitoring or controlling; Arrangements of fuel cells, structures or switching circuits therefore

B	60	L	11	1883	Details of fuel cells
B	60	L	11	1885	Starting of fuel cells
B	60	L	11	1887	combined with battery control
B	60	L	11	1888	Fuel cell temperature regulation
B	60	L	11	189	by control of electric loads
B	60	L	11	1892	by cooling
B	60	L	11	1894	by heating
B	60	L	11	1896	Arrangements of the fuel cells
B	60	L	11	1898	Adaptation of fuel cell structures for electric vehicles
B	60	L	2230	00	Charging station details
B	60	L	2230	10	Parts thereof
B	60	L	2230	12	Connection cables
B	60	L	2230	14	Contact less plugs
B	60	L	2230	16	Communication interfaces
B	60	L	2230	20	Power generation within charging stations
B	60	L	2230	22	by solar panels
B	60	L	2230	24	by wind generators
B	60	L	2230	26	by power stored mechanically, e.g. by fly wheel
B	60	L	2230	28	by fuel cells
B	60	L	2230	30	by batteries
B	60	L	2230	32	by capacitors
B	60	L	2230	34	Charging station being an island
B	60	L	2230	40	Remote controls for charging stations
B	60	N	2	44	Details or parts not otherwise provided for seats in general A47C7/00; storage compartments mounted on or under a seat B60R7/043
B	60	N	2	441	Panels between front seats
B	60	N	2	4415	Hydro-pneumatic adjustments of the shape for lumbar supports B60N2/665; for coach-like constructions B60N2/7082; arrangement or mounting of air bags in vehicle seats B60R21/207
B	60	N	2	442	Positioning and locking mechanisms B60N2/16, B60N2/18, B60N2/22, B60N2/225 take precedence
B	60	N	2	443	linear
B	60	N	2	4435	rotatable
B	60	N	2	444	and provided with braking systems
B	60	N	2	4445	Stepwise movement mechanisms, e.g. ratchets ratchets in general G05G7/06
B	60	N	2	448	massaging systems massaging systems in general A61H1/00
B	60	N	2	449	Side-rests B60N2/2872, B60N2/4882 take precedence
B	60	N	2	4492	adjustable
B	60	N	2	4495	Lower-leg-rests, e.g. calf-rests
B	60	N	2	46	Arm-rests
B	60	N	2	4606	movable to an inoperative position
B	60	N	2	4613	in a recess of the back-rest
B	60	N	2	462	in a recess of the cushion
B	60	N	2	4626	adjustable
B	60	N	2	4633	Angle adjustment
B	60	N	2	464	Height adjustment
B	60	N	2	4646	Longitudinal adjustment
B	60	N	2	4653	Transversal adjustment
B	60	N	2	466	post or panel mounted

B	60	N	2	4666	sill suspended, e.g. window sill
B	60	N	2	4673	detachable
B	60	N	2	468	Adaptations for additional use of the arm-rests
B	60	N	2	4686	for use as storage compartments
B	60	N	2	4693	for use as electrical control means, e.g. switches
B	60	N	2	48	Head-rests B60N2/2851 takes precedence
B	60	N	2	4802	fixed B60N2/487 and B60N2/4876 take precedence
B	60	N	2	4805	movable or adjustable B60N2/4876 takes precedence
B	60	N	2	4808	slidable B60N2/4864, B60N2/4867 take precedence
B	60	N	2	4811	characterised by the locking device
B	60	N	2	4814	Release mechanism, e.g. buttons
B	60	N	2	4817	Stepwise positioning
B	60	N	2	482	Continuous positioning
B	60	N	2	4823	using springs
B	60	N	2	4826	using elastic materials
B	60	N	2	4829	characterised by adjusting mechanism, e.g. electric motors
B	60	N	2	4832	movable to an inoperative position
B	60	N	2	4835	for rear seats
B	60	N	2	4838	tiltable
B	60	N	2	4841	characterised by the locking device
B	60	N	2	4844	Release mechanism, e.g. buttons
B	60	N	2	4847	Stepwise positioning
B	60	N	2	485	Continuous positioning
B	60	N	2	4852	characterised by the adjusting mechanism, e.g. electric motors
B	60	N	2	4855	movable to an inoperative position
B	60	N	2	4858	for rear seats
B	60	N	2	4861	provided with attitude keeping devices, e.g. parallelogram mechanism
B	60	N	2	4864	longitudinally movable
B	60	N	2	4867	transversally movable
B	60	N	2	487	movable to an inoperative position B60N2/4832, B60N2/4855 take precedence
B	60	N	2	4873	for rear seats B60N2/4835, B60N2/4858 take precedence
B	60	N	2	4876	with diverse use, e.g. loud-speakers, magnetic devices, heating or cooling devices roll-over protection B60R21/13
B	60	N	2	4879	detachable
B	60	N	2	4882	provided with side rests
B	60	N	2	4885	with protection systems against abnormal g-forces, e.g. the headrest or the higher part of the back-rest displacing
B	60	N	2002	4405	the head-rest or seat being used as an anchorage point, for an object not covered by groups in B60N, e.g. for a canvas
B	60	N	2002	4425	using electric or hydraulic energy
B	60	N	2002	445	the actuation of the positioning or locking mechanism for one seat part being dependent on the position of another seat part, e.g. the seats floor lock being unlocked when the back-rest is inclined or the backrest can be tilted only when the seat is in its rear position
B	60	N	2002	4455	characterised by details of the locking system
B	60	N	2002	446	the locking system prevents an abnormal or wrong mounting situation, i.e. deployment or functioning of a seat part being prevented if the seat or seat part is not properly mounted

					the locking system disabling tilting of the back-rest to the vertical position,
B	60	N	2002	4465	when the seat is not properly installed
					the locking system prevents tilt of whole seat by retaining and locking the seat
B	60	N	2002	447	in a vertical storage position
					the locking system being an element distinct from articulation means, retaining
B	60	N	2002	4475	the seat or seat part in its folded position, e.g. controlled by a wire
					Warning systems, e.g. the seat or seat parts vibrates to warn the passenger
B	60	N	2002	4485	when facing a danger
B	60	N	2002	4888	characterised by other structural or mechanical details
B	60	N	2002	4891	the head-rest being in the shape of a comma
B	60	N	2002	4894	rods solidly attached to the backrest
B	60	N	2002	4897	characterised by details of guide sleeves guiding the rods of the head-rest
					manually adjustable, e.g. colours, orientation, intensity automatically adjusted
B	60	Q	3	001	B60Q3/0293
B	60	Q	3	002	using light guides
B	60	Q	3	004	inside a single lighting device
B	60	Q	3	005	to distribute light between several lighting devices
					with means for electrical plugging into vehicle, e.g. in cigarette lighter, in
B	60	Q	3	007	special plug arrangement of electrically heated lighters B60N3/14
B	60	Q	3	008	using UV light
B	60	Q	3	02	for lighting passenger or driving compartment
					Details of mounting onto vehicle interior, e.g. onto ceiling, floor mounting of
B	60	Q	3	0203	lighting devices F21V21/04, vehicle liners B60R13/02, connectors H01R33/00
					Modular mounting systems, e.g. using tracks, rails, multiple plugs for lighting
B	60	Q	3	0206	devices in general F21V21/005
B	60	Q	3	0209	mounted onto or for lighting specific vehicle fittings
					on or for sun roofs, or windows windows per seB60J1/00, sun roofs per
B	60	Q	3	0213	seB60J7/00
B	60	Q	3	0216	on or for doors or steps vehicle doors B60J5/00
					on or for small compartments, e.g. glove compartment stowing small
B	60	Q	3	022	appliances in vehicles B60R7/00
B	60	Q	3	0223	on or for seats, arm rests or head rests vehicle seats per seB60N2/00
B	60	Q	3	0226	on or for sun visors sun visors per seB60J3/0204
B	60	Q	3	023	on or for rear view mirrors rear view mirror per seB60R1/00
B	60	Q	3	0233	on or for door handles or hand grabs door handles per seB60N3/02
					on or for smoking related tools, e.g. cigarette lighters, ashtrays cigarette
B	60	Q	3	0236	lighters B60N3/14, ashtrays B60N3/083
					on or for steering wheel or gear shift steering wheels B62D1/04, gear shifts
B	60	Q	3	024	B60K20/00
					others, e.g. cup holders, ignition locks lighting for door locks E05B15/08,
B	60	Q	3	0243	E05B17/10
					for mass transit vehicles B60Q3/0209, B60Q3/04 take precedence,
B	60	Q	3	0246	illumination of sides, boards or panels in general G09F13/00
B	60	Q	3	025	Overall lighting
B	60	Q	3	0253	Specific lighting, e.g. reading lamps
					Emergency lighting, e.g. escape routes illumination of emergency signs
B	60	Q	3	0256	G09F13/00
B	60	Q	3	0259	Circuits or control therefore

B	60	Q	3	0263	Mounted on a shaft for lighting devices in general F21V21/26 and F21V21/32
B	60	Q	3	0266	Retractable, concealable lamps
B	60	Q	3	0269	with provision for being portable portable lighting devices in general F21L
B	60	Q	3	0273	Specifically arranged for convertibles
B	60	Q	3	0276	additional interior lighting specifically arranged to prevent conductor dazzling, e.g. by constricting the conductor's pupil
B	60	Q	3	0279	overall lighting alone or in combination with specific lighting, e.g. arrangement of room lamps, combination of room lamps with reading lamps fastening of components within lighting devices F21V17/00, F21V19/00 and F21V23/00
B	60	Q	3	0283	using lighting panels or mats, e.g. electro-luminescent panels, LED mats electroluminescent light sources H05B33/00
B	60	Q	3	0286	Specific lighting, e.g. reading lamps, directional or focussed lighting towards small surfaces, e.g. using blends fastening of components within lighting devices F21V17/00, F21V19/00 and F21V23/00
B	60	Q	3	0289	Strip lighting, edge marking, e.g. using elongated light sources along or around parts to be illuminated
B	60	Q	3	0293	circuits or control for interior lights circuits for light sources in general H05B37/00 and H05B39/00, for electric vehicles B60L1/14, electronic switching H03K17/00, remote control H04Q9/00
B	60	Q	3	0296	Switches specifically designed for interior lights, e.g. switching by tilting the lens mechanical switches in general H01H, electronic switches in general H03K17/00, arrangement of instruments in vehicles in general B60K35/00 and B60K37/00
B	60	Q	3	04	for dashboard lighting of individual instruments G01D, association of lighting devices with LCDs G02F1/1335
B	60	Q	3	042	lighting onto the surface to be illuminated
B	60	Q	3	044	lighting through the surface to be illuminated
B	60	Q	3	046	Circuits or control therefore for electric vehicles B60L1/14; electronic switching H03K17/00; remote control H04Q9/00; circuits for light sources in general H05B37/00, H05B39/00
B	60	Q	3	048	for varying the light intensity controlling the light intensity of displays G09G; circuits for controlling the light intensity emitted by particular light sources H05B
B	60	Q	3	06	for lighting compartments other than passenger or driving space, e.g. luggage or engine compartment
B	60	Q	3	065	with provision for being portable portable lighting devices in general F21L
B	62	J	2300	00	Aspects relating to cycles not covered by the other groups of this subclass
B	62	J	2300	0006	Audio electrical equipments specially adapted for use on cycles, e.g. radios or mobile phones
B	62	J	2300	0013	Cycle computers
B	62	J	2300	002	Sensors specially adapted for cycles for control of electrically propelled cycles B62M6/50Mounting thereof
B	62	J	2300	0026	Displays specially adapted for cycles for audio equipments B62J2300/0006; arrangement or adaptations of instruments in vehicles B60K35/00
B	62	J	2300	0033	Mounting arrangements therefor

					Other electrical equipment specially adapted for use on a cycle not provided
B	62	J	2300	004	for in groups B62J2300/0006 - B62J2300/0026, e.g. solar cells
B	62	J	2300	0046	Arrangements for guiding control cables
B	62	J	2300	0053	Handles for carrying cycles
B	62	J	2300	006	Cleaning devices for the ground, e.g. ground sweeping attachments
B	62	J	2300	0066	Cleaning devices for cycles or parts thereof, e.g. windscreen wipers
					Connecting arms or harnesses, e.g. between cycle and a rider or between
B	62	J	2300	0073	cycle and a dog
B	62	J	2300	008	Indication devices specially adapted for cycles, e.g. signs or flags
B	62	J	2300	0086	Ornaments or toys specially designed for fixing on cycles
B	62	J	2300	0093	Tools adapted to be carried on cycles
					Bicycle seats and accessoriesAlarm, signaling or lighting devices in so far as there is a connection with the construction of the cycleLuggage carriers, chain
B	62	J	2700	00	guardsother accessories for bicycles
B	62	J	2700	63	To-be-deteled with administrative transfer to parent group
B	62	J	2700	632	To-be-deleted with administrative transfer to parent group
B	62	J	2700	634	Bicycle seats
					Signaling devices, e.g. operated by the wheel, connected to the brakes or electricConstructions of bells specially adapted for cyclesAttachment devices
B	62	J	2700	636	therefor
B	62	J	2700	638	Chain guards as a detachable pieceDevices for cleaning the chain
B	64	C	2013	506	using electro-hydrostatic actuators (EHA's)
B	64	C	2700	00	Codes corresponding to the former IdT classification
B	64	C	2700	62	Codes corresponding to the former IdT classification of class 62
B	64	C	2700	6201	Airplanes, helicopters, autogyros
B	64	C	2700	6202	Characteristics not limited to an aircraft type
B	64	C	2700	6204	Materials
B	64	C	2700	6205	Protection means, e.g. against rust, water, fire
B	64	C	2700	6207	Stabilisation
B	64	C	2700	6208	Longitudinal and transversal stability
B	64	C	2700	6209	automatically controlled
B	64	C	2700	6211	with movable weight not acting as pendulum
B	64	C	2700	6212	with weight acting as pendulum
B	64	C	2700	6214	with parts of the aircraft acting as pendulum
B	64	C	2700	6215	with fluid acting as pendulum
B	64	C	2700	6216	by gyroscopical effect (also in combination with pendulum)
B	64	C	2700	6218	by other pulse power source, e.g. aerodynamical effect, propellers
					by auxiliary fixed or movable surfaces or other special devices, or surfaces
B	64	C	2700	6219	acting as parachutes
B	64	C	2700	6221	manually controlled
B	64	C	2700	6222	with movable weight not acting as pendulum
B	64	C	2700	6223	with weight acting as pendulum
B	64	C	2700	6225	by gyroscopical effet (also in combination with pendulum)
B	64	C	2700	6226	by other pulse power sourcee.g. aerodymamical effet, popeller
B	64	C	2700	6228	by auxiliary planes or parachutes
					Special devices to stabilise or to compensate a helicoper rotor by other means
B	64	C	2700	6229	than counter rotating rotor
B	64	C	2700	623	Special devices to stabilise or to compensate a gyroplane pivoting torque
B	64	C	2700	6232	Airplanes with fixed or movable wings
B	64	C	2700	6233	Design, structure or mounting of wings

B	64	C	2700	6235	Guy-wires assembliesConnections between wings and fuselage
B	64	C	2700	6236	Honeycomb stiffeners
B	64	C	2700	6238	Pressure equalising devices between the inside of the wing and the atmosphere
B	64	C	2700	6239	Ful wing structures
B	64	C	2700	624	Wings or parts thereof movable during flight
B	64	C	2700	6242	adjustable about several axes
B	64	C	2700	6243	Control systems
B	64	C	2700	6245	by warping of wings tips
B	64	C	2700	6246	by auxiliary surfaces at the wings tips
B	64	C	2700	6247	by auxiliary surfaces outside the wings tips
B	64	C	2700	6249	by propellers
B	64	C	2700	625	by jet flaps
B	64	C	2700	6252	Control systems assemblies
B	64	C	2700	6253	Feedback compensation devices
B	64	C	2700	6254	Control systems or transmitting systems for actuating control surfaces
B	64	C	2700	6256	Control devices for fins or rudders
B	64	C	2700	6257	by hydraulical, pneumatical or electrical means
B	64	C	2700	6259	Control devices for feed-back compensating and guiding surfaces
B	64	C	2700	626	by hydraulical, pneumatical or electrical means
B	64	C	2700	6261	Transmission systems
B	64	C	2700	6263	Servo actuatorsAuxiliary motors
B	64	C	2700	6264	Vibrations suppressing devices
B	64	C	2700	6266	Safety devices
B	64	C	2700	6267	Control devices for a special position of the flying aircraft or a special position of the pilot
B	64	C	2700	6269	Control from outside the aircraft
B	64	C	2700	627	Influencing airflow over aircraft surfaces
B	64	C	2700	6271	by fluid flow around the aircraft
B	64	C	2700	6273	lift being provided by static devices, e.g. balloons
B	64	C	2700	6274	by other means, e.g. propellers, rotors, air jets
B	64	C	2700	6276	Rotorcraft
B	64	C	2700	6277	with driven or windmilling propellers
B	64	C	2700	6278	Features common for any type of rotorcraft
B	64	C	2700	628	Devices for the adjustment of the bladesFolding blades
B	64	C	2700	6281	Helicopters
B	64	C	2700	6283	Rotor construction
B	64	C	2700	6284	Blades control devices
B	64	C	2700	6285	Drag reducing devices for an inoperative rotor
B	64	C	2700	6287	Rotor drives
B	64	C	2700	6288	Hydraulic, electric or man powered rotorcrafts
B	64	C	2700	629	Rotors which can be used as propulsion means
B	64	C	2700	6291	Rotors stowable in the wings
B	64	C	2700	6292	Control means using other devices than the rotor
B	64	C	2700	6294	Construction parts, e.g. framesBalancingFlight controlBrakes
B	64	C	2700	6295	Aircraft specially adapted for special uses
B	64	C	2700	6297	for military uses
B	64	C	2700	6298	Gliders
B	64	D	2700	00	** to be decided **
B	64	D	2700	62	** to be decided **

B	64	D	2700	62008	Aircraft equipment
B	64	D	2700	62017	Respiratory apparatus for high altitude
B	64	D	2700	62026	Pressurised cabins
B	64	D	2700	62035	Pressure control valves
B	64	D	2700	62043	IndicatorsProtective devices
B	64	D	2700	62052	De-icing or preventing icing
B	64	D	2700	62061	of structural elements, e.g. fuselage, wings and the like
B	64	D	2700	6207	by mechanical means
B	64	D	2700	62078	by electric heating
B	64	D	2700	62087	by ducted exhaust gas
B	64	D	2700	62096	of propellers
B	64	D	2700	62105	by mechanical means
B	64	D	2700	62114	by electric heating
B	64	D	2700	62122	by ducted exhaust gas
B	64	D	2700	62131	of windows or air intakes
B	64	D	2700	6214	by mechanical means
B	64	D	2700	62149	by electric heating
B	64	D	2700	62157	by ducted exhaust gas
B	64	D	2700	62166	Mounting of instruments
B	64	D	2700	62175	DashboardsRadar antennaeChart tables
B	64	D	2700	62184	Measuring instruments
B	64	D	2700	62192	not using electrical means
B	64	D	2700	62201	Turbulence detectors not using radar signals
B	64	D	2700	6221	using electrical means
B	64	D	2700	62219	Electric safety devices
B	64	D	2700	62228	Electric compensation or correction devices
B	64	D	2700	62236	Electrical circuits for acceleration indicators
B	64	D	2700	62245	Electric circuits for rate of change indicators
B	64	D	2700	62254	Airspeed indicators
B	64	D	2700	62263	Devices indicating or eliminating decrease of the airspeed
B	64	D	2700	62271	Roll, pitch or yaw indicators
B	64	D	2700	6228	Airflow direction indicators
B	64	D	2700	62289	Flight recorders, e.g. black boxes
B	64	D	2700	62298	Weight and center of gravity indicators
B	64	D	2700	62307	Tanks
B	64	D	2700	62315	Tanks or accessories
B	64	D	2700	62324	Manufacturing and materials
B	64	D	2700	62333	Special panels
B	64	D	2700	62342	Flexible or foldable panels
B	64	D	2700	6235	Self-sealing or double panelsTanks suspended elastically
B	64	D	2700	62359	Thermally insulated walls
B	64	D	2700	62368	Fluid level indicators
B	64	D	2700	62377	Accessories, e.g. packs, floats, valves
B	64	D	2700	62385	Mounting of tanksSupporting devices
B	64	D	2700	62394	Auxiliary tanksTanks convertible into floating devices
B	64	D	2700	62403	Wing parts used as fuel tanks
B	64	D	2700	62412	Emptying or filling of tanks
B	64	D	2700	62421	Emptying devices
B	64	D	2700	62429	Flow linesCouplings
B	64	D	2700	62438	Safety devices for tanks

B	64	D	2700	62447	Fire preventing devices
B	64	D	2700	62456	Explosion preventing devices
B	64	D	2700	62464	Devices for degassing fuel or for controlling boiloff
B	64	D	2700	62473	Parachutes
B	64	D	2700	62482	Parts or accessories
B	64	D	2700	62491	Construction of canopies
B	64	D	2700	625	Load suspensionHarnesses or quick release boxes
B	64	D	2700	62508	Disposition or mounting in aircraft
B	64	D	2700	62517	Manufacturing or packing
B	64	D	2700	62526	Parachutes with a rigid armature
B	64	D	2700	62535	Means for deflating the parachute after use
B	64	D	2700	62543	Means to open or to close the parachute pack
B	64	D	2700	62552	Devices to open or to drive the parachute during fall
B	64	D	2700	62561	Devices to control the time or rate of the openingDeceleration devices
B	64	D	2700	6257	Opening induced by means other than airstream
B	64	D	2700	62578	Special uses of parachutes or similar devices
B	64	D	2700	62587	Other emergency devices, e.g. balloons, parachutes with propellers
B	64	D	2700	62596	Dropping, ejecting, releasing or receiving articles during flight
B	64	D	2700	62605	Dropping, ejecting or releasing articles
B	64	D	2700	62614	the article being explosive, e.g. bombs
B	64	D	2700	62622	equipped with parachutes, rotary wings or rudders
B	64	D	2700	62631	Armaments
B	64	D	2700	6264	Mounting of flame-projectors
B	64	D	2700	62649	Mounting of firearms
B	64	D	2700	62657	Devices adapted to shoot throught the hollow propeller shaft
B	64	D	2700	62666	Means for protecting aircraft against aerial barriers
B	64	D	2700	62675	Turrets which can be lowered
B	64	D	2700	62684	General disposition of the aircraft in relation to the propulsion means
B	64	D	2700	62692	Tractive or propulsive propellers
B	64	D	2700	62701	operated by hydraulic power
B	64	D	2700	6271	operated by electrical power
B	64	D	2700	62719	jet-driven
B	64	D	2700	62728	Specific for seaplanes or amphibian aircrafts
B	64	D	2700	62736	jet propulsion
B	64	D	2700	62745	combined with propellers
B	64	D	2700	62754	combined with jet-deflectors
B	64	D	2700	62763	Propulsion or transmission devices
B	64	D	2700	62771	General arrangements
B	64	D	2700	6278	in propeller driven aircraft
B	64	D	2700	62789	In seaplanes or amphibian aircraft
B	64	D	2700	62798	One propeller being driven by several engines
B	64	D	2700	62807	Several non-coaxial propellers driven by only one engine
B	64	D	2700	62815	Double propellers
B	64	D	2700	62824	co-rotating
B	64	D	2700	62833	counter-rotating
B	64	D	2700	62842	driven by only one engine
B	64	D	2700	6285	driven by several engines
B	64	D	2700	62859	in jet propulsion aircraft
B	64	D	2700	62868	Manufacturing of propellers or propulsive wheels
B	64	D	2700	62877	Variable-pitch blades

B	64	D	2700	62885	Torque transmission to the propeller shaft
B	64	D	2700	62894	Coupling between motor shaft and propeller shaft
B	64	D	2700	62903	through an overrunning coupling, a friction clutch, an adjustable slipping coupling, a hydraulic coupling or a retarding coupling
B	64	D	2700	62912	through a device which changes the direction of rotation of the propeller relative to the engine
B	64	D	2700	62921	Brakes arranged on the propeller shaft
B	64	D	2700	62929	Lubrication of the transmission
B	64	D	2700	62938	Arrangements of propulsion plants
B	64	D	2700	62947	in propeller driven aircraft
B	64	D	2700	62956	in jet propulsion aircraft
B	64	D	2700	62964	Engines ejectable during flight
B	64	D	2700	62973	Heating and cooling devices
B	64	D	2700	62982	Elastic suspension using rubber
B	64	D	2700	62991	Devices for braking or boosting aircraft, e.g. auxiliary propeller, rockets, jets, take-off assistance
B	64	F	2700	00	** Title-to-be-decided **
B	64	F	2700	62	** Title-to-be-decided **
B	64	F	2700	6203	Alighting gear
B	64	F	2700	6207	for airships, airplanes or seaplanes
B	64	F	2700	6211	for airships
B	64	F	2700	6215	Landing bumpers
B	64	F	2700	6219	Anchors
B	64	F	2700	6223	Floats
B	64	F	2700	6226	for airplanes
B	64	F	2700	623	Shock-absorbers
B	64	F	2700	6234	Tail wheels
B	64	F	2700	6238	Power driven wheels
B	64	F	2700	6242	Fluid-damped shock absorbers
B	64	F	2700	6246	working independently of the springsNon-hydraulic or non-pneumatic shock absorbers
B	64	F	2700	6249	Brakes
B	64	F	2700	6253	fluid operated
B	64	F	2700	6257	Overturn preventing devices or protection means
B	64	F	2700	6261	Seaplanes equipped with floats or skates
B	64	F	2700	6265	inflatable or deformable
B	64	F	2700	6269	collapsible or retractable
B	64	F	2700	6273	disposed at the wings tips
B	64	F	2700	6276	Arrangement of the flating devices
B	64	F	2700	628	Aircraft provided with floats and wheels or endless-tracks
B	64	F	2700	6284	Propellers, rudders or brakes acting in the water
B	64	F	2700	6288	Floats suspension
B	64	F	2700	6292	Floating devices or aircraft parts usable as a life saving boats
B	64	F	2700	6296	take-off devices
B	64	F	5	0009	Assembling or manufacturing aircraft, e.g. jigs therefor
B	64	F	5	0018	Cleaning aircraft
B	64	F	5	0027	Polishing window units
B	64	F	5	0036	handling or transporting aircraft components
B	64	F	5	0045	Test or inspection of aircraft components or systems

B	64	F	5	0054	De-icing aircraft aircraft-fitted installations for de-icing or preventing icing on exterior surfaces of aircraft B64D15/00
B	64	F	5	0063	by liquid application; Spraying installations therefor, e.g. on vehicles spraying vehicles B60P3/30; materials for application to surfaces to minimize adherence of ice, mist or water thereto C09K3/18
B	64	F	5	0072	by radiation, e.g. infrared
B	64	F	5	0081	Repairing aircraft
B	64	F	5	009	Methods and equipment for repairing leakages in fuel tanks
B	65	D	17	16	Opening arrangements or devices incorporated in or attached to, containers B65D17/50 takes precedence
B	65	D	17	161	for tearing along a line or from a point of weakness provided in an end wall
B	65	D	17	163	for opening completely by means of a tearing tab
B	65	D	17	165	for opening partially by means of a tearing tab
B	65	D	17	166	and provided with attached means for reclosing or resealing
B	65	D	17	168	for tearing along a line or from a point of weakness provided in the side wall B65D17/20 takes precedence
B	65	D	17	18	Attached can-cutting devices
B	65	D	17	20	Tearing-strips or -wires
B	65	D	17	22	with tongues or tags for engagement by slotted keys
B	65	D	17	24	Lines of weakness
B	65	D	17	26	Attachments of slotted keys to preserving cans or tins
B	65	D	85	16	for compressible or flexible articles of other shapes for wearing apparel B65D85/18
B	65	D	90	506	under pressure or vacuum
B	65	D	90	508	comprising electrically conductive layers in walls
B	66	B	2001	2425	Zone definition for two cars in the same hatchway
B	66	B	2001	2441	with the use of a speed pattern generator
B	66	B	2001	245	for high-speed elevators which do not attain the maximum speed during shorts runs
B	66	B	2001	2475	by using cost function computing
B	66	B	2001	2483	by predicting the traffic, e.g. with statistical or learning procedures
B	66	B	2009	0876	Details
B	66	B	2009	0884	Control systems
B	66	B	2009	0892	Seats' constructional features
B	66	B	2201	34	details
C	01	B	31	00	CarbonCompounds thereof C01B6/00 , C01B21/00, C01B23/00 take precedence; percarbonates C01B15/10; carbon black C09C1/48; gas carbon production C10B
C	01	B	31	005	Carbon fluorides, e.g. (CF)n or (C2F)n preparation of intercalation compounds of graphite with fluorine C01B31/0415
C	01	B	31	02	Preparation of carbon by using ultra high pressure, e.g. for the formation of diamonds, B01J3/06; by crystal growth C30BPurification; After-treatment
C	01	B	31	0206	Nanosized carbon materials graphene C01B31/0438
C	01	B	31	0213	Fullerenes
C	01	B	31	022	Carbon nanotubes
C	01	B	31	0226	Preparation
C	01	B	31	0233	characterized by the catalyst
C	01	B	31	024	being a continuous process
C	01	B	31	0246	in the liquid phase

C	01	B	31	0253	After-treatments
C	01	B	31	026	Purification
C	01	B	31	0266	Sorting
C	01	B	31	0273	Derivatisation, solubilisation or dispersion in solvents
C	01	B	31	028	Cutting
C	01	B	31	0286	Opening or filling
C	01	B	31	0293	Other structures, e.g. nano-onions, nano-scrolls, nano-horns, nano-cones or nano-walls
C	01	B	31	04	Graphite, including modified graphite, e.g. graphitic oxides, intercalated graphite, expanded graphite or graphene
C	01	B	31	0407	Purification; Recovery or purification of graphite formed in iron making, e.g. kish graphite
C	01	B	31	0415	Intercalation
C	01	B	31	0423	Expanded or exfoliated graphite
C	01	B	31	043	Graphitic oxides, graphitic acids or salts thereof
C	01	B	31	0438	Graphene
C	01	B	31	0446	Preparation
C	01	B	31	0453	by CVD
C	01	B	31	0461	by epitaxial growth
C	01	B	31	0469	by exfoliation
C	01	B	31	0476	starting from graphitic oxide
C	01	B	31	0484	After-treatments
C	01	B	31	0492	Purification
C	01	B	31	06	Diamond
C	01	B	31	065	After-treatment, e.g. purification, irradiation
C	01	B	31	08	Active carbon
C	01	B	31	081	from waste materials, e.g. tyres, spent sulfite pulp liquor
C	01	B	31	082	from distillation residues of coal or petroleum; from petroleum acid sludge
C	01	B	31	083	After-treatment, e.g. purification granulation C01B31/14
C	01	B	31	084	Coating; Grafting; Microencapsulation
C	01	B	31	085	with "molecular sieve" properties
C	01	B	31	086	Preparation, reactivation or regeneration by a physical process, e.g. by irradiation, by using electric current passing through a carbonaceous feedstock, by using recyclable inert heating bodies
C	01	B	31	087	Reactivation or regeneration by a physical process C01B31/086
C	01	B	31	088	Apparatus C01B31/086 takes precedence
C	01	B	31	089	Making shaped products, e.g. fibres, spheres, membranes, foam, or the like granulation C01B31/14
C	01	B	31	10	Preparation by using gaseous activating agents C01B31/086, C01B31/088 take precedence
C	01	B	31	12	Preparation by using non-gaseous activating agents C01B31/086, C01B31/088 take precedence
C	01	B	31	125	Preparation by impregnation with a metallic compound
C	01	B	31	14	Granulation apparatus B01J2/00
C	01	B	31	18	Carbon monoxide metal carbonyls C01G
C	01	B	31	20	Carbon dioxide
C	01	B	31	22	Solidifying
C	01	B	31	24	Methods for the preparation of carbonates or bicarbonates in general percarbonates C01B15/10; particular individual carbonates, see the relevant groups in C01B - C01G according to the cation

					Compounds containing carbon and sulfur, e.g. carbon disulfide, carbon
C	01	B	31	26	oxysulfideThiophosgene
C	01	B	31	262	Carbon disulfide
C	01	B	31	265	Preparation by reacting sulfur or a sulfur compound with a hydrocarbon
C	01	B	31	267	Carbon oxysulfide
C	01	B	31	28	Phosgene
C	01	B	31	30	Carbides alloys C22
					Oxycarbides, sulfocarbides or mixtures of carbides with other bodies, e.g.
C	01	B	31	301	graphite; Carbides of other non-metals, e.g. silicocarbides, borocarbides
C	01	B	31	303	Simple carbides of elements not covered below
C	01	B	31	305	Titanium carbides
C	01	B	31	306	Carbides of actinides
					Carbides of alkali metals, strontium, barium or magnesium; Mixtures thereof
C	01	B	31	308	with calcium carbide
C	01	B	31	32	Calcium carbide
C	01	B	31	34	Tungsten or molybdenum carbides
C	01	B	31	36	Carbides of silicon or boron
C	03	C	25	1005	with materials of composite character
C	03	C	25	101	containing particles, fibres or flakes, e.g. in a continuous phase
C	03	C	25	1015	with rubber latex-containing coatings
					Coating with colouring agent-containing compositions, e.g. for obtaining
C	03	C	25	102	coloured textiles
C	03	C	25	107	with inorganic coatings
C	03	C	25	1075	Carbon
C	03	C	25	108	Metals
C	03	C	25	1085	Multiple inorganic coatings
C	03	C	25	243	Oils, waxes, fats or derivatives thereof
C	03	C	25	246	Non-macromolecular compounds not covered by C03C25/243
C	03	C	25	6233	Laser
C	03	C	25	6253	Microwaves
C	07	C	2101	00	Systems containing only non-condensed rings
C	07	C	2101	02	with a three-membered ring
C	07	C	2101	04	with a four-membered ring
C	07	C	2101	06	with a five-membered ring
C	07	C	2101	08	The ring being saturated
C	07	C	2101	10	The ring being unsaturated
C	07	C	2101	12	with a six-membered ring
C	07	C	2101	14	The ring being saturated
C	07	C	2101	16	The ring being unsaturated
C	07	C	2101	18	with a ring being at least seven-membered
C	07	C	2101	20	The ring being twelve-membered
C	07	C	2102	00	Systems containing two condensed rings
C	07	C	2102	02	The rings having only two atoms in common
C	07	C	2102	04	One of the condensed rings being a six-membered aromatic ring
C	07	C	2102	06	The other ring being four-membered
C	07	C	2102	08	The other ring being five-membered (e.g. indane)
C	07	C	2102	10	The other ring being six-membered (e.d. tetraline)
C	07	C	2102	12	The other ring being at least seven-membered
C	07	C	2102	14	All rings being cycloaliphatic
C	07	C	2102	16	The ring system contains five carbon atoms

C	07	C	2102	18	The ring system contains six carbon atoms
C	07	C	2102	20	The ring system contains seven carbon atoms
C	07	C	2102	22	The ring system contains eight carbon atoms (e.g. pentalene)
C	07	C	2102	24	The ring system contains nine carbon atoms (e.g. perhydroindane)
C	07	C	2102	26	The ring system contains ten carbon atoms
C	07	C	2102	28	Hydrogenated naphthalenes
C	07	C	2102	30	(Hydrogenated) azulenes
C	07	C	2102	32	The ring system contains at least eleven carbon atoms
C	07	C	2102	34	(Hydrogenated) heptalenes
C	07	C	2102	36	The rings having more than two atoms in common
C	07	C	2102	38	The bicyclo ring system contains five carbon atoms
C	07	C	2102	40	The bicyclo ring system contains six carbon atoms
C	07	C	2102	42	The bicyclo ring system contains seven carbon atoms
C	07	C	2102	44	The bicyclo ring system contains eight carbon atoms
C	07	C	2102	46	The bicyclo ring system contains nine carbon atoms
C	07	C	2102	48	The bicyclo ring system contains ten carbon atoms
C	07	C	2102	50	Spiro compounds
C	07	C	2103	00	Systems containing at least three condensed rings
C	07	C	2103	02	Ortho- or ortho- and peri-condensed systems
C	07	C	2103	04	containing three rings
C	07	C	2103	06	containing at least one ring with less than six ring members
C	07	C	2103	08	containing three- or four-membered rings
C	07	C	2103	10	containing five-membered rings
C	07	C	2103	12	only one five-membered ring
C	07	C	2103	14	(Hydrogenated) benz[f]indenes
C	07	C	2103	16	(Hydrogenated) benz[e]indenes
C	07	C	2103	18	(Hydrogenated) fluorenes
C	07	C	2103	20	(Hydrogenated) acenaphthenes
C	07	C	2103	22	containing only six-membered rings
C	07	C	2103	24	(Hydrogenated) anthracenes
C	07	C	2103	26	(Hydrogenated) phenanthrenes
C	07	C	2103	28	(Hydrogenated) phenalenes
C	07	C	2103	30	containing seven-membered rings
C	07	C	2103	32	(Hydrogenated) dibenzocycloheptenes
C	07	C	2103	34	(Hydrogenated) benzoheptalenes
C	07	C	2103	36	containing eight-membered rings
C	07	C	2103	38	containing rings with at least nine members
C	07	C	2103	40	containing four condensed rings
C	07	C	2103	42	containing only six-membered rings
C	07	C	2103	44	(Hydrogenated) naphthacenes
C	07	C	2103	46	1,4,4a,5,5a,6,11,12a-Octahydronaphthacenes, e.g. tetracyclines
C	07	C	2103	48	(Hydrogenated) chrysenes
C	07	C	2103	50	(Hydrogenated) pyrenes
C	07	C	2103	52	containing five condensed rings
C	07	C	2103	54	containing more than five condensed rings
C	07	C	2103	56	Ring systems containing bridged rings
C	07	C	2103	58	containing three rings
C	07	C	2103	60	containing at least one ring with less than six members
C	07	C	2103	62	containing three- or four-membered rings
C	07	C	2103	64	having a tricyclo[2.2.1.0(2,6)]hept-structure

C	07	C	2103	66	containing five-membered rings
C	07	C	2103	68	(Hydrogenated) dicyclopentadienes
C	07	C	2103	70	containing only six-membered rings
C	07	C	2103	72	(Hydrogenated) ethanonaphthalenes
C	07	C	2103	74	Adamantanes
C	07	C	2103	76	containing at least one ring which contains more than six ring members
C	07	C	2103	78	containing seven-membered rings
C	07	C	2103	80	containing eight-membered rings
C	07	C	2103	82	having three condensed rings with in total fourteen carbon atoms and having a having a [5.4.3.0(1,8)] ring structure, e.g. pleuromutiline
C	07	C	2103	84	containing rings with more than eight members
C	07	C	2103	86	containing four rings
C	07	C	2103	88	(Hydrogenated) ethanoanthracenes
C	07	C	2103	90	containing more than four rings
C	07	C	2103	91	(Hydrogenated) polycyclopentadienes
C	07	C	2103	92	with a condensed ring system consisting of at least two mutually uncondensed aromatic ring systems, linked by an annular structure formed by carbon chains on non-adjacent positions of the aromatic system, e.g. cyclophanes
C	07	C	2103	93	Spiro compounds
C	07	C	2103	94	containing "free" spiro atoms
C	07	C	2103	95	containing "not free" spiro atoms
C	07	C	2103	96	containing at least one ring which contains less than six members
C	07	C	2103	97	containing five-membered rings
C	07	C	2103	98	containing at least one ring which contains more than six ring members
C	07	C	2103	99	containing eight-membered rings
C	07	C	2104	00	Fullerenes, e.g. C60 (buckminsterfullerene) or C70
C	07	F	3	106	Aliphatic substances containing mercury
C	07	F	5	006	Addition and condensation products with amines or phosphines
C	07	F	5	063	compounds containing only Al, C, H and Al is not a ring element
C	07	F	7	006	of Group 4 of the Periodic System
C	07	F	7	0809	comprising no Si as a ring atom
C	07	F	7	0818	comprising no heterocyclic ring
C	07	F	7	082	comprising at least one atom selected from elements other than Si, C, H, N, O, halogen, S, Se or Te
C	07	F	7	0821	comprising at least one Si-Si linkage
C	07	F	7	0823	comprising at least one Si-cyano linkage
C	07	F	7	084	containing a ring comprising a Si-O-Si sequence compounds with a ring containing only alternating Si and O atoms, i.e. cyclosiloxanes C07F7/21
C	07	F	7	0841	also comprising a C atom
C	07	F	7	0843	also comprising an atom different from Si, O and C
C	07	F	7	0845	not containing a ring comprising a Si-O-Si sequence
C	07	F	7	0847	a Si atom of a Si-O-Si sequence being attached only to -O-Si or to a C atom
C	07	F	7	0849	this C atom being part of a group which contains only C and H
C	07	F	7	085	this C atom being part of a group which contains halogen
C	07	F	7	0852	this C atom being part of a group which contains O
C	07	F	7	0854	this C atom being part of a group which contains N
C	07	F	7	0856	this C atom being part of a group which contains an element other than C, H, O, N and halogen

					a Si atom of a Si-O-Si sequence having linkages other than Si-O-Si or bonds
C	07	F	7	0858	other than Si-C
C	07	F	7	0859	Si-OX bond, X = H or C
C	07	F	7	0861	Si-Halogen bond
C	07	F	7	0863	Si-N bond
C	07	F	7	0865	Si-O-N bond
C	07	F	7	0867	Si-H bond
C	07	F	7	0869	Si-Q bond, Q different from O, N, H and halogen
C	07	F	7	0881	Other reactions
C	07	F	7	0883	Si-halogen bond
C	07	F	7	0885	Si-OX bond (X = C or H)
C	07	F	7	0887	Si-Q bond (Q different from O, C or halogen)
C	07	F	7	1808	the Si-C and Si-O-C linkages being at different Si atoms
					having (C1)a-Si-(OC2)b linkages, a and b each being >=1 and a+b = 4, C1
C	07	F	7	1812	and C2 being hydrocarbon or substituted hydrocarbon radicals
C	07	F	7	1816	a and b being alternatively specified
C	07	F	7	182	C1 containing aliphatic or cycloaliphatic unsaturated bonds or heteroatoms
C	07	F	7	1824	C2 containing aliphatic or cycloaliphatic unsaturated bonds or heteroatoms
					C1 and C2 containing aliphatic or cycloaliphatic unsaturated bonds or
C	07	F	7	1828	heteroatoms
C	07	F	7	1832	compounds not provided for in C07F7/182 - C07F7/1824
C	07	F	7	1836	a being 1, b being 3
C	07	F	7	184	a being 2, b being 2
C	07	F	7	1844	a being 3, b being 1
					C1 being an unsubstituted acyclic saturated hydrocarbon radical containing less than six carbon atoms, a benzyl radical, a phenyl radical, or a methyl
C	07	F	7	1848	substituted phenyl radical
					C2 being an acyclic, arylaliphatic or a non-condensed aromatic radical
C	07	F	7	1852	containing only carbon, hydrogen, halogen, oxygen, nitrogen or sulfur
C	07	F	7	1856	C2 containing cycloaliphatic, heterocyclic or condensed aromatic rings
C	07	F	7	186	C2 containing an azetidine radical or condensed azetidine radical
					C2 containing elements other than carbon, hydrogen, halogen, oxygen,
C	07	F	7	1864	nitrogen or sulfur
					having (C1)a-Si-(OC2)b linkages, a and b each being >=1 and a+b ≠ 4 (C1
C	07	F	7	1868	and C2 being hydrocarbon or substituted hydrocarbon radicals)
C	07	F	7	2212	Compounds having only tin-carbon linkages
C	07	F	7	2216	Compounds having one or more tin-halogen linkages
C	07	F	7	222	Compounds having one or more tin-hydrogen linkages
C	07	F	7	2228	Compounds not belonging to the groups C07F7/2232 - C07F7/2252
					Compounds having one or more Sn-O-R linkages R=H or C, except if C
C	07	F	7	2232	belongs to a carboxyl group
C	07	F	7	2236	Compounds with a Sn=O linkage
C	07	F	7	224	Stannoic acids and their esters
C	07	F	7	2244	Tin esters of organic acids
C	07	F	7	2248	Tin esters of inorganic acids
C	07	F	7	2252	Compounds with a Sn-O-metal linkage
C	07	F	7	2256	Compounds containing a Sn-O-Sn linkage
C	07	F	7	2264	Compounds not belonging to group C07F7/2268 - C07F7/2276

					Compounds having one or more Sn-S-R linkages R=H or C, except if C
C	07	F	7	2268	belongs to a carboxyl group
C	07	F	7	2272	Esters of thiocarboxylic acids and their derivatives
C	07	F	7	2276	Compounds with one or more Sn-S-metal linkages
C	07	F	7	228	Compounds with one or more Sn-S-Sn linkages
C	07	F	7	2292	Compounds with one or more Sn-Sn linkages
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	5683	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	5721	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	5722	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	5723	heteroatom other than nitrogen, e.g. or
C	07	F	9	5725	bonded through a heteroatom
C	07	F	9	5726	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	5727	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	581	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	582	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	584	heteroatom other than nitrogen, e.g. or
C	07	F	9	585	bonded through a heteroatom
C	07	F	9	587	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	588	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	591	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	592	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	594	heteroatom other than nitrogen, e.g. or
C	07	F	9	595	bonded through a heteroatom
C	07	F	9	597	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	598	atom, e.g. or

					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	65032	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	65033	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	65034	heteroatom other than nitrogen, e.g. or
C	07	F	9	65035	bonded through a heteroatom
C	07	F	9	65036	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	65037	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	65061	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	65062	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	65063	heteroatom other than nitrogen, e.g. or
C	07	F	9	65065	bonded through a heteroatom
C	07	F	9	65066	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	65067	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	650911	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	650917	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	650923	heteroatom other than nitrogen, e.g. or
C	07	F	9	650929	bonded through a heteroatom
C	07	F	9	650935	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	650941	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	650958	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	650964	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	65097	heteroatom other than nitrogen, e.g. or
C	07	F	9	650976	bonded through a heteroatom
C	07	F	9	650982	directly bonded

					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	650988	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	65121	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	65122	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	65123	heteroatom other than nitrogen, e.g. or
C	07	F	9	65125	bonded through a heteroatom
C	07	F	9	65126	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	65127	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	65181	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	65182	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	65183	heteroatom other than nitrogen, e.g. or
C	07	F	9	65185	bonded through a heteroatom
C	07	F	9	65186	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	65187	atom, e.g. or
					the phosphorus atom is bonded to a cyclic nitrogen atom, directly, through one or more heteroatoms or through a hydrocarbon chain which may be broken by
C	07	F	9	65211	one or more heteroatoms
					the phosphorus atom is bonded to a cyclic carbon atom, other than directly, through a heteroatom, or through a hydrocarbon chain which may be broken
C	07	F	9	65212	by at least one nitrogen atom, e.g. or
					the phosphorus atom is bonded to a cyclic carbon atom, directly or through a
C	07	F	9	65213	heteroatom other than nitrogen, e.g. or
C	07	F	9	65215	bonded through a heteroatom
C	07	F	9	65216	directly bonded
					the phosphorus atom is bonded to a cyclic carbon atom, through a nitrogen atom or through a hydrocarbon chain which is broken by at least one nitrogen
C	07	F	9	65217	atom, e.g. or
C	07	F	9	703	Complex metallic compounds
C	07	F	9	706	Heterocyclic compounds containing As in the ring
C	07	F	9	723	As bound only to carbon, hydrogen and/or oxygen
C	07	F	9	726	Compounds with chains of As
C	07	F	9	743	As bound only to carbon, hydrogen and/or oxygen
C	07	F	9	746	Compounds with chains of As
C	07	F	9	803	As bound only to carbon, hydrogen and/or oxygen
C	07	F	9	806	Compounds with chains of As

C	07	F	9	904	Aliphatic compounds
C	07	F	9	906	Heterocyclic compounds
C	07	F	9	908	Complex compounds
C	07	K	2316	00	Immunoglobulins specific feautures
C	07	K	2316	50	Immunoglobulins characterised by their fragments
C	07	K	2316	52	Constant or Fc region
C	07	K	2316	95	Antibodies with agonistic, e.g. apoptotic, activity upon their specific binding to an antigen
C	07	K	2316	96	Antibodies with antagonisticactivity upon their specific binding to an antigen
C	08	G	61	128	derived from other compounds
C	08	K	2003	045	Fullerenes
C	08	K	3	0008	Inorganic ingredients according to more than one of the "one dot" groups of C08K3/02 - C08K3/40
C	08	K	3	0016	Crosslinking or vulcanising agents, including accelerators
C	08	K	3	0025	Additives activating the degradation of the macromolecular compound
C	08	K	3	0033	Fillers, pigments, reinforcing additives
C	08	K	3	0041	Stabilisers against oxidation, heat, light, ozone
C	08	K	3	005	Biocides; macromolecular substances as carriers for biocide material A01N25/10
C	08	K	3	0058	Flame-proofing or flame-retarding additives
C	08	K	3	0066	Antistatics
C	08	K	3	0075	Metal containing compounds according to more than one of the "one dot" groups of C08K3/10 - C08K3/40
C	08	K	3	0083	Compounds containing metals of the 1st to 3rd Group of the Periodic system
C	08	K	3	0091	Compounds containing metals of the 4th to 8th Group of the Periodic system, e.g. nickel compounds
C	09	D	11	005	Inks based on two liquids, one liquid being the ink, the other liquid being a reaction solution, a fixer or a treatment solution for the ink
C	09	D	7	001	Diluents or solvents for paints
C	09	D	7	002	Use of compounds as thickening agents
C	09	D	7	004	Two or more thickening agents
C	09	D	7	005	Use of compounds as gloss-reducing agents
C	09	D	7	007	Use of organic pigments or dyes inorganic pigments C09D7/1216
C	09	D	7	008	Paint detackifiers or coagulants, e.g. for the treatment of oversprays in paint spraying installations chemical paint removers C09D9/00
C	09	D	7	02	Use of compounds as anti-settling agents
C	09	D	7	04	Use of compounds as anti-skinning agents
C	09	D	7	06	Use of compounds as levelling agents
C	09	D	7	12	Other additives
C	09	D	7	1208	non-macromolecular
C	09	D	7	1216	inorganic C09D7/1291 takes precedence
C	09	D	7	1225	modified by treatment with other compounds
C	09	D	7	1233	organic
C	09	D	7	1241	Stabilisers against degradation by oxygen, light or heat
C	09	D	7	125	macromolecular C09D7/1291 takes precedence
C	09	D	7	1258	characterised by particle size not used
C	09	D	7	1266	characterised by a particle size lower than 100 nm
C	09	D	7	1275	characterised by a particle size of 100-1000 nm

C	09	D	7	1283	characterised by a particle size higher than 1000 nm
C	09	D	7	1291	characterised by shape, e.g. fibres, flakes, microspheres
C	09	D	7	14	Special processes for incorporating ingredients
C	09	J	7	02	on carriers
C	09	J	7	0203	essentially based on heat-curable or heat-activatable adhesive
C	09	J	7	0207	characterised by pressure-sensitive adhesive
C	09	J	7	021	based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds
C	09	J	7	0214	Natural or synthetic rubber
C	09	J	7	0217	Acrylic polymers
C	09	J	7	0221	Block-copolymers
C	09	J	7	0225	characterised by release features
C	09	J	7	0228	characterised by the release coating composition
C	09	J	7	0232	characterised by the structure of the release liner
C	09	J	7	0235	characterised by the substrate of the release liner
C	09	J	7	0239	on carriers other than paper or textile fabrics
C	09	J	7	0242	essentially based on heat-curable or heat-activatable adhesive
C	09	J	7	0246	characterised by pressure-sensitive adhesive
C	09	J	7	025	characterised by the release coating composition or properties
C	09	J	7	0253	characterised by the structure
C	09	J	7	0257	characterised by the priming intermediate layer composition
C	09	J	7	026	characterised by the carrier
C	09	J	7	0264	Plastic, including metallised plastic
C	09	J	7	0267	based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds
C	09	J	7	0271	Polyolefin, including rubber
C	09	J	7	0275	Ethylene or propylene polymers
C	09	J	7	0278	Vinyl resins, e.g. PVC
C	09	J	7	0282	based on macromolecular compounds obtained otherwise than by reactions involving only carbon-to-carbon unsaturated bonds
C	09	J	7	0285	Polyester
C	09	J	7	0289	Porous or cellular plastic
C	09	J	7	0292	Metal sheet
C	09	J	7	0296	Laminates
C	09	J	7	04	on paper or textile fabric adhesive bandages, dressings or adsorbent pads, e.g. plasters , A61F13/02
C	09	J	7	041	characterised by the adhesive composition
C	09	J	7	042	Water-activatable adhesive, e.g. gummed paper
C	09	J	7	043	Heat-curable or heat-activatable adhesive
C	09	J	7	045	Pressure-sensitive adhesive
C	09	J	7	046	characterised by the release coating composition
C	09	J	7	047	characterised by the structure
C	09	J	7	048	characterised by the backing impregnating composition
C	12	G	3	065	Flavouring with wood or wood extract; Pretreatment of the wood used therefor
C	12	G	3	085	using membranes, e.g. by ultra filtration, by dialysis, by osmosis, by inverse osmosis, by electrodialysis
C	12	G	3	10	Increasing the alcohol content
C	12	G	3	105	by refrigeration and separation of the crystals formed
C	12	G	3	12	by distillation

C	12	Q	1	6802	General aspects not used, see subgroups
C	40	B	30	02	In silico screening
C	40	B	50	02	In silico or mathematical conception of libraries
D	06	L	1	005	using only solid or pasty materials
D	06	L	3	00	Bleaching fibres, threads, yarns, fabrics, feathers or made-up fibrous goods, leather or furs dyeing and bleaching D06P1/0024
D	06	L	3	02	using compounds which develop oxygen D06L3/06 takes precedence
D	06	L	3	021	combined with specific additives
D	06	L	3	023	using inorganic compounds
D	06	L	3	025	using organic compounds
D	06	L	3	026	in an inert solvent
D	06	L	3	028	in a gaseous compositions
D	06	L	3	04	by irradiation or ozonisation electrolysis
D	06	L	3	06	using compounds which contain halogen
D	06	L	3	061	combined with specific additives
D	06	L	3	063	using organic compounds
D	06	L	3	065	in an inert solvent
D	06	L	3	066	in a gaseous composition D06L3/08 takes precedence
D	06	L	3	068	using hypohalogenites
D	06	L	3	08	chloriteschlorine dioxide
D	06	L	3	085	combined with specific additives
D	06	L	3	10	using reducing agents
D	06	L	3	11	using enzymes
D	06	L	3	12	Optical bleaching brightening
D	06	L	3	1207	Optical brightening in aqueous medium
D	06	L	3	1214	with anionic brighteners
D	06	L	3	1221	with cationic brighteners
D	06	L	3	1228	with disperse brighteners
D	06	L	3	1235	Optical brightening in organic solvent
D	06	L	3	1242	Optical brightening in gaseous or solid form, e.g. transfer, powder
D	06	L	3	125	Optical brightening with mixtures of optical brighteners
D	06	L	3	1257	Optical brightening combined with other treatments, e.g. finishing, bleaching, softening, dyeing, white pigments
D	06	L	3	1264	Optical brighteners preparations, physical treatments of optical brighteners, optical brighteners in aerosol form
D	06	L	3	1271	Optical brightening assistants
D	06	L	3	1278	Fixing treatments in optical brightening, e.g. heat, steam, acid shock
D	06	L	3	1285	Fugitive optical brightening, organic blueing, discharge of optical brighteners, optical brighteners in discharge pastes, differential optical brightening
D	06	L	3	1292	Organic blueing with mixtures of organic dyes; mixtures of dyes with optical brighteners
D	06	L	3	14	Multi-step processes
D	06	L	3	16	combined with cleaning or washing
E	05	B	2083	33	
F	02	F	2547	00	
F	02	M	2037	225	having pump means in the filter housing
F	02	M	2037	226	having pressure regulator means in the filter housing
F	02	M	2037	228	Fuel tank strainers
F	02	M	2051	08	Specially for low-pressure fuel-injection

F	02	M	37	221	having water separator means
F	02	M	37	223	having heating means F02M37/221 takes precedence
F	03	D	1	001	Assembly thereof fixing wind engaging part to rotor F03D1/0658; Erecting methods; Equipments therefor foundations F03D13/22
F	03	D	1	003	Maintenance or repair; Equipment therefor
F	03	D	1	005	Transport; Equipments therefor
F	03	D	1	006	Commisioning
F	03	D	1	008	Balancing static or dynamic imbalances
F	03	D	9	001	the apparatus being a pump or compressor; Producing under- or overpressure F03D9/17 takes precedence
F	03	D	9	002	the apparatus being an electrical generator F03D9/11 takes precedence; details of electrical generators specifically adapted to wind turbines H02K7/183
F	03	D	9	003	connected to an electrical general supply grid; Arrangements therefor
F	03	D	9	005	the wind motor being part of a wind farm
F	03	D	9	006	Adaptations for producing heat, e.g. in heat pump systems
F	16	B	17	002	Non-releasable connections, i.e. by means of plastic deformation
F	16	L	53	001	Heating of pipes or pipe systems
F	16	L	53	002	by means of a hot fluid, e.g. gas, steam or liquid
F	16	L	53	004	by electric, magnetic or electromagnetic fields, e.g. using induction, dielectric or microwave heating
F	16	L	53	005	by ohmic-resistance heating
F	16	L	53	007	the heating current flowing directly through the pipe to be heated
F	16	L	53	008	using electric heating elements in the form of wires, cables, strips, ribbons or the like
F	21	L	11	00	Portable lighting devices with built-in batteries or accumulators, not covered by group F21L4/00 or F21L7/00, e.g. miners' hand-lamps
F	21	L	7	00	Torches or pocket-lamps with built-in batteries F21L4/00 takes precedence
F	21	S	48	00	Lighting devices or systems specially adapted for vehicles arrangements or adaptations for ships or waterborne vessels B63B45/00
F	21	S	48	10	Headlamps
F	21	S	48	11	characterised by the light source
F	21	S	48	1104	Attachment of light sources; Lamp holders; Terminals or connectors therefor F21S48/1742 takes precedence
F	21	S	48	1109	Details of lamp holders, terminals or connectors mounting of a ballast for a high intensity discharge lamp on the housing wall of a headlamp B60Q
F	21	S	48	1113	Bayonet attachments
F	21	S	48	1118	Wire spring attachments
F	21	S	48	1122	Snap-fit attachments
F	21	S	48	1127	Type of emitted light
F	21	S	48	1131	Colored light
F	21	S	48	1136	Ultraviolet [UV] or infrared [IR] light
F	21	S	48	114	Polarized light
F	21	S	48	1145	Type of light source
F	21	S	48	115	Light emitting diodes (LEDs)
F	21	S	48	1154	the main emission direction of the LED being parallel to the optical axis of the headlamp
F	21	S	48	1159	the main emission direction of the LED being angled to the optical axis of the headlamp

F	21	S	48	1163	Surface emitters, e.g. OLEDs
F	21	S	48	1168	Incandescent light sources, e.g. filament or halogen lamps
F	21	S	48	1172	having two or more filaments
F	21	S	48	1177	characterised by the shape of the filament
F	21	S	48	1181	having a filament being arranged transversally to the optical axis of the headlamp
F	21	S	48	1186	High intensity discharge [HID] light source
F	21	S	48	119	Fluorescent, elongated light source
F	21	S	48	1195	Combination of light sources of different types or shapes
F	21	S	48	12	characterised by refractors, transparent cover plates or filters
F	21	S	48	1208	Attachment of refractors, transparent cover plates or filters F21S48/1721 takes precedence
F	21	S	48	1216	specially adapted to projection lenses
F	21	S	48	1225	Type of refractor, transparent cover plates or filters
F	21	S	48	1233	Cover glass
F	21	S	48	1241	Light guides light guides per seG02B6/0001
F	21	S	48	125	Projection lenses
F	21	S	48	1258	Lenses with a circular or truncated circular outline, when seen from the front
F	21	S	48	1266	Elongated lenses
F	21	S	48	1275	Composite lenses; Lenses with a patch like shape
F	21	S	48	1283	Lens surfaces, e.g. coatings, surface structures
F	21	S	48	1291	Thick lenses for providing the final automotive light distribution
F	21	S	48	13	characterised by reflectors
F	21	S	48	1305	Attachment of reflectors F21S48/1757 takes precedence
F	21	S	48	1311	specially adapted to extension reflectors
F	21	S	48	1317	Optical design
F	21	S	48	1323	the reflector being a surface of revolution or a planar surface, e.g. truncated
F	21	S	48	1329	the reflector using total internal reflection
F	21	S	48	1335	the reflector having two perpendicular cross sections having regular geometrical curves of a distinct nature
F	21	S	48	1341	the reflector consisting of complete annular areas
F	21	S	48	1347	with continuity at the junction between adjacent areas
F	21	S	48	1352	with discontinuity at the junction between adjacent areas
F	21	S	48	1358	the reflector consisting of patch like sectors
F	21	S	48	1364	with continuity at the junction between adjacent areas
F	21	S	48	137	with discontinuity at the junction between adjacent areas
F	21	S	48	1376	the reflector having a structured surface, e.g. with facets or corrugations
F	21	S	48	1382	the reflector having surface portions added to its general concavity
F	21	S	48	1388	Combination of two or more reflectors
F	21	S	48	1394	Material, surface treatment or coating of the reflector
F	21	S	48	14	characterised by screens, non-reflecting members, light-shielding members or fixed shades
F	21	S	48	142	Attachment thereof F21S48/1768 takes precedence
F	21	S	48	145	Details of the shape of screens, non-reflecting members, light-shielding members or fixed shades
F	21	S	48	147	Hoods or cap-shaped

					characterised by aesthetical components or components other than light sources, reflectors, refractors or screens, e.g. partition walls, covers,
F	21	S	48	15	decorative trims
F	21	S	48	155	Attachment thereof
F	21	S	48	17	characterised by a variable light distribution
F	21	S	48	1705	Light distributions being switched
F	21	S	48	171	between right and left traffic side
F	21	S	48	1715	by acting on refractors, filters or transparent cover plates
F	21	S	48	1721	by moving refractors, filters or transparent cover plates
F	21	S	48	1726	by changing the light transmissivity of the refractors, filters or transparent cover plates
F	21	S	48	1731	by electro-optic means, e.g. liquid crystal or electrochromic devices
F	21	S	48	1736	by acting on light sources
F	21	S	48	1742	by moving light sources
F	21	S	48	1747	by switching light sources F21S48/1168 takes precedence
F	21	S	48	1752	by acting on reflectors
F	21	S	48	1757	by moving reflectors
F	21	S	48	1763	by acting on screens
F	21	S	48	1768	by moving screens
F	21	S	48	1773	Blades, i.e. screens moving in a vertical plane
F	21	S	48	1778	Flaps, i.e. screens pivoting around one of its edges
F	21	S	48	1784	Shields, i.e. screens not creating an image meant to be projected, e.g. shielding a part of the light source or a part of an additional optical element
F	21	S	48	1789	Rotating screens, i.e. screens rotating around a vertical axis
F	21	S	48	1794	Shafts, i.e. screens being a rotating shaft
F	21	S	48	20	Signal lamps, e.g. brake lamps or turn signal lamps
F	21	S	48	21	characterised by the light source
F	21	S	48	211	Attachment of light sources; Lamp holders, terminals or connectors therefor
F	21	S	48	212	Details of lamp holders, terminals or connectors
F	21	S	48	214	Type of the light source
F	21	S	48	215	Light emitting diodes (LEDs)
F	21	S	48	217	Surface emitters, e.g. OLEDs
F	21	S	48	218	Strips of light sources
F	21	S	48	22	characterised by refractors, filters or transparent cover plates
F	21	S	48	2206	Attachment thereof
F	21	S	48	2212	Type of refractors, filters or transparent cover plates
F	21	S	48	2218	Filters
F	21	S	48	2225	Light guides light guides per seG02B6/0001
F	21	S	48	2231	characterised by the shape of the light guide
F	21	S	48	2237	Bar or rod-like light guides
F	21	S	48	2243	Plate-like light guides
F	21	S	48	225	Light guides of complex shape or comprising a portion having a complex shape
F	21	S	48	2256	characterised by the emission area
F	21	S	48	2262	the light guide emitting on its extremity
F	21	S	48	2268	the light guide emitting on its surface
F	21	S	48	2275	characterised by the number of light sources coupled into the light guide
F	21	S	48	2281	Multiple light sources

F	21	S	48	2287	Single light source
F	21	S	48	2293	the light guide being used to transport light from a remote light source, e.g. from light generators
F	21	S	48	23	characterised by reflectors
F	21	S	48	232	Attachment thereof
F	21	S	48	234	Optical design thereof
F	21	S	48	236	using total internal reflection
F	21	S	48	238	Materials thereof, e.g. coatings
F	21	S	48	24	characterised by the combination of reflectors and refractors
F	21	S	48	25	characterised by aesthetical components or components other than light sources, reflectors, refractors, e.g. partition walls, covers or decorative trims
F	21	S	48	255	Attachment thereof
F	21	S	48	30	Arrangements dedicated to purposes other than light emission or distribution
F	21	S	48	31	Protection of the lighting devices
F	21	S	48	32	Cooling of the lighting devices
F	21	S	48	321	Attachment of the means for cooling; Cooling arrangements
F	21	S	48	323	Forced cooling
F	21	S	48	325	using air or other gas
F	21	S	48	326	using liquid
F	21	S	48	328	Passive cooling
F	21	S	48	33	Waterproofing
F	21	S	48	332	Provisions for ventilation or drainage
F	21	S	48	335	specifically adapted for headlamps
F	21	S	48	337	specifically adapted for signal lamps
F	21	S	48	34	Heating of the lighting devices, e.g. for de-fogging
F	21	S	8	10	specially adapted for vehicles
F	21	S	8	12	providing single shaped beams or asymmetric beams, e.g. for penetrating fog or for preventing glare
F	21	V	3	0409	characterised by the material
F	21	V	3	0418	the material being glass
F	21	V	3	0427	the material diffusing light, e.g. translucent glass
F	21	V	3	0436	the material being plastics
F	21	V	3	0445	the material diffusing light, e.g. translucent plastics
F	21	V	3	0454	comprising air or water bubbles, e.g. foamed materials
F	21	V	3	0463	comprising fluorescent or light-storing materials
F	21	V	3	0472	Coatings
F	21	V	3	0481	provided with fluorescent or light-storing materials
F	21	V	9	10	with provision for variation of the colour or intensity F21V9/12 takes precedence
F	21	V	9	16	Selection of luminescent materials for screens
F	21	W	2101	00	Use or application of lighting devices on or in vehicles
F	21	W	2101	02	for land vehicles
F	21	W	2101	023	for cycles
F	21	W	2101	027	for motorcycles
F	21	W	2101	04	for water vehicles
F	21	W	2101	06	for aircraft
F	21	W	2101	08	Interior lights
F	21	W	2101	10	Head-, spot- or fog-lights

F	21	W	2101	12	Direction indicator lights
F	21	W	2101	14	Rear or stop lights
F	24	F	1	025	Portable
F	24	F	11	0009	Electrical control or safety systems or apparatus
F	24	F	11	001	Control systems or circuits characterised by their inputs, e.g. using sensors
F	24	F	11	0012	Air temperature
F	24	F	11	0015	Air humidity
F	24	F	11	0017	Air quality properties
F	24	F	11	0034	Occupancy
F	24	F	11	006	Control systems or circuits characterised by type of control, internal processing or calculations, e.g. using fuzzy logic adaptative control or estimating values
F	24	F	11	0076	Control systems or circuits characterised by their outputs, e.g. using a variable flow fan
F	24	F	11	0078	controlling the angle of the air stream
F	24	F	11	0079	controlling the speed of ventilators
F	24	F	11	008	controlling the supply of heat-exchange fluid
F	24	F	11	0086	Control systems or circuits characterised by other control features, e.g. display or monitoring devices
F	24	F	11	02	Arrangements or mounting of control or safety devices
F	24	F	11	022	for the control of flow conditions, e.g. pressure, velocity
F	24	F	11	025	characterised by velocity control
F	24	F	11	027	exclusively for controlling the air supply to a heat-exchanger or the ancillary bypass F24F11/08 takes precedence
F	24	F	11	04	solely for controlling the rate of air-flow F24F11/08 takes precedence
F	24	F	11	043	dependent on air-current or wind pressure F24F11/04 takes precedence
F	24	F	11	047	to constant value
F	24	F	11	053	by means responsive to temperature
F	24	F	11	06	solely for controlling the supply of heating or cooling fluids for secondary treatment F24F11/08 takes precedence
F	24	F	11	08	for controlling the primary treatment of air
F	24	F	11	085	in independent units
F	24	F	2001	0037	mounted in or under the ceiling
F	24	F	2001	004	mounted or standing on the floor
F	24	F	2001	0044	mounted at least partially under the floor or the outlet air is being distributed under the floor HVAC with raised floors F24F2221/40
F	24	F	2001	0048	mounted in or on the wall
F	24	F	2001	0051	Introducing outside air to rooms
F	24	F	2001	0055	Exhausting internal air from rooms
F	24	F	2001	0062	receiving air from a central station
F	24	F	2001	0066	with air treatment in the central station and in the room unit
F	24	F	2001	007	with air treatment in the room unit
F	24	F	2001	0074	receiving heat exchange fluid
F	24	F	2001	0077	the fluid entering and leaving the room unit as a liquid
F	24	F	2001	0081	the fluid entering the room unit as a liquid and leaving it as a gas
F	24	F	2001	0085	using the cooling effect of evaporating fluid either evaporating directly in the room air, in the air supplied to the room or in the outside air
F	24	F	2001	0088	evaporating directly in the room air or the air supplied to the room

					evaporating in the outside air, e.g. evaporation heat being extracted from the
F	24	F	2001	0092	room air by indirect heat exchange
F	24	F	2001	0096	Units supplying highly filtered air to a room or to a limited area within a room
F	24	F	2011	0013	of the outside air
F	24	F	2011	0016	of the outside air
F	24	F	2011	0019	of the outside air
F	24	F	2011	002	Odor concentration
F	24	F	2011	0021	Ozone concentration
F	24	F	2011	0023	Concentration of air-borne particles
F	24	F	2011	0024	Tobacco smoke
F	24	F	2011	0026	Carbon dioxide concentration
F	24	F	2011	0027	Carbon monoxide concentration
F	24	F	2011	0028	Oxygen concentration
F	24	F	2011	003	Radon concentration
F	24	F	2011	0031	Electric charge
F	24	F	2011	0032	Volatile organic compound [VOC]
F	24	F	2011	0035	Position of occupants
F	24	F	2011	0036	Activity of occupants
F	24	F	2011	0038	Air velocity
F	24	F	2011	0039	of the outside air
F	24	F	2011	0041	Pressure
F	24	F	2011	0042	Air pressure
F	24	F	2011	0043	Heat exchange fluid pressure
F	24	F	2011	0045	Heat exchange fluid temperature
F	24	F	2011	0046	Load
F	24	F	2011	0047	Energy consumption
F	24	F	2011	0049	Sunlight
F	24	F	2011	005	Artificial light
F	24	F	2011	0052	Malfunction
F	24	F	2011	0053	Sound
F	24	F	2011	0054	Condensate
F	24	F	2011	0056	Damper state, e.g. open or closed
F	24	F	2011	0057	using feedback from user
F	24	F	2011	0058	using weather information or forecast
F	24	F	2011	0061	using electronic processing
F	24	F	2011	0063	using pre-stored data
F	24	F	2011	0064	for selecting an operative mode
F	24	F	2011	0065	Sleeping mode
F	24	F	2011	0067	using one central controller connected to several sub-controllers
F	24	F	2011	0068	using remote control device
F	24	F	2011	0069	using a telephone line
F	24	F	2011	0071	using internet communication
F	24	F	2011	0072	for programming
F	24	F	2011	0073	using timers
F	24	F	2011	0075	for electric energy efficiency or saving
F	24	F	2011	0082	using a valve
F	24	F	2011	0083	using a variable flow pump
F	24	F	2011	0084	monitoring refrigerant leakage
F	24	F	2011	0087	for defrosting

F	24	F	2011	0089	an outdoor unit
F	24	F	2011	009	an indoor unit
F	24	F	2011	0091	Display or monitoring devices
F	24	F	2011	0093	Devices monitoring filter performance
F	24	F	2011	0094	for computing energy costs
F	24	F	2011	0095	Devices triggered by fire, excessive heat or smoke
F	24	F	2011	0097	opening air passage in case of fire, excessive heat or smoke
F	24	F	2011	0098	closing air passage in case of fire, excessive heat or smoke
F	24	J	-	-	PRODUCING OR USE OF HEAT NOT OTHERWISE PROVIDED FOR materials therefor C09K5/00; engines or other mechanisms for producing mechanical power from heat, see the relevant classes, e.g. F03G for using natural heat
F	24	J	1	00	Apparatus or devices using heat produced by exothermal chemical reactions other than by combustion for cooking-vessels A47J36/28; self-heating compresses A61FA61F7/03; materials for the production of heat or cold involving non-reversible chemical reactions, other than by combustion, when used C09K5/18
F	24	J	2	00	Use of solar heat, e.g. solar heat collectors distillation or evaporation of water using solar energy C02F1/14; devices for producing mechanical power from solar energy F03G6/00; semiconductor devices specially adapted for converting solar energy into electrical energy H01L31/00; photovoltaic [PV] cells including means directly associated with the PV cell to utilise heat energy H01L31/0525; PV modules including means associated with the PV module to utilise heat energy H02S40/44
F	24	J	2	0007	Passive solar heat collectors
F	24	J	2	0015	Solar heat collectors absorbing essentially direct solar radiation combined with a solar heat collector absorbing concentrated radiation
F	24	J	2	0023	Solar heat collector using additional ambient air heat or another heat source, e.g. electrical
F	24	J	2	02	Solar heat collectors with support for article heated, e.g. stoves, ranges, crucibles, furnaces or ovens using solar heat
F	24	J	2	04	Solar heat collectors having working fluid conveyed through collector
F	24	J	2	0422	Solar collectors integrated in fixed constructions, e.g. in buildings
F	24	J	2	0427	in the form of a fence, a balustrade or a handrail
F	24	J	2	0433	in the form of a window
F	24	J	2	0438	in the form of a floor construction
F	24	J	2	0444	in the form of a façade construction
F	24	J	2	045	in the form of a roof construction F24J2/0455 takes precedence
F	24	J	2	0455	in the form of shingles or tiles
F	24	J	2	0461	using pools or ponds
F	24	J	2	0466	Salt gradient solar ponds
F	24	J	2	0472	Floating solar collectors or covers
F	24	J	2	0477	having circuits for more than one working fluid F24J2/30 takes precedence
F	24	J	2	0483	having two or more passages for the same working fluid F24J2/20, F24J2/24 take precedence
F	24	J	2	0488	Solar heat collectors having absorber surfaces of a particular form
F	24	J	2	0494	having two or more absorber surfaces
F	24	J	2	05	surrounded by a transparent enclosure, e.g. evacuated solar collectors
F	24	J	2	055	the enclosure being cylindrical
F	24	J	2	06	having concentrating elements optical elements or systems per seG02B

F	24	J	2	062	Prisms
F	24	J	2	065	Fluorescent material
F	24	J	2	067	Light guides
F	24	J	2	07	Receivers working at high temperature, e.g. for solar power plants
F	24	J	2	08	having lenses as concentrating elements
F	24	J	2	085	having discontinuous faces, e.g. Fresnel lenses
F	24	J	2	10	having reflectors as concentrating elements
F	24	J	2	1047	having discontinuous faces
F	24	J	2	1052	flexible F24J2/125, F24J2/145 take precedence
F	24	J	2	1057	characterised by the material or the construction of the reflector
F	24	J	2	12	parabolic
F	24	J	2	125	flexible
F	24	J	2	13	hemispherical
F	24	J	2	14	semi-cylindrical or cylindro-parabolic
F	24	J	2	145	flexible
F	24	J	2	15	conical
F	24	J	2	16	having flat plates
F	24	J	2	18	spaced, opposed interacting reflecting surfaces
F	24	J	2	20	the working fluid being conveyed between plates
F	24	J	2	201	having conduits of plastic material
F	24	J	2	202	having conduits formed by paired plates and internal partition means
F	24	J	2	204	having conduits formed by paired plates, only one of which is plane
F	24	J	2	205	having conduits formed by paired non-plane plates
F	24	J	2	207	having curved plate-like conduits, e.g. semi-spherical
F	24	J	2	208	having conduits formed by inflation of portions of a pair of joined sheets
F	24	J	2	22	having extended surfaces, e.g. protrusions, corrugations F24J2/28 takes precedence
F	24	J	2	23	the working fluid trickling freely or flowing in a continuous film over collector elements
F	24	J	2	24	the working fluid being conveyed through tubular heat absorbing conduits
F	24	J	2	242	the tubular conduits being integrated in a block; the tubular conduits touching each other
F	24	J	2	243	the tubular conduits being of plastic material
F	24	J	2	244	the tubular conduits are not fixed to heat absorbing plates and are not touching each other
F	24	J	2	245	the conduits being parallel to each other
F	24	J	2	246	the conduits being helically coiled
F	24	J	2	247	the conduits being spirally coiled
F	24	J	2	248	the conduits being otherwise bent, e.g. zig-zag
F	24	J	2	26	having extended surfaces, e.g. protrusions F24J2/28 takes precedence
F	24	J	2	265	the conduits being parallel to each other
F	24	J	2	266	the conduits being spirally coiled
F	24	J	2	268	the conduits being otherwise bent, e.g. zig-zag
F	24	J	2	28	having permeable mass, foraminous or porous materials
F	24	J	2	30	with means to exchange heat between plural fluids
F	24	J	2	32	having evaporator and condenser section, e.g. heat pipe
F	24	J	2	34	having heat storage mass
F	24	J	2	345	Hot water storage
F	24	J	2	36	Rollable or foldable collector units

					employing tracking means F24J2/02, F24J2/06 take precedence; rotary supports or mountings therefor F24J2/54; supporting structures of photovoltaic modules for generation of electric power specially adapted for
F	24	J	2	38	solar tracking systems H02S20/32
F	24	J	2	40	Control arrangements control of position for tracking F24J2/38
F	24	J	2	402	responsive to temperature
F	24	J	2	405	responsive to wind
F	24	J	2	407	for controlling transmission of solar radiation
					Solar heat systems not otherwise provided for solar heat systems in greenhouses A01G9/243; distillation by solar energy C02F1/14; devices for producing mechanical power from solar energy F03G6/00; central heat systems using heat solar energy F24D11/003, F24D11/007, F24D11/0221, F24D11/0264; domestic hot-water supply systems using solar energy F24D17/0015, F24D17/0042, F24D17/0063; air-conditioning systems using solar energy F24F5/0046; refrigeration machines, plants or systems using solar energy F25B27/002; drying solid materials or objects by radiation, e.g.
F	24	J	2	42	from the sun F26B3/28
F	24	J	2	423	for swimming pools
F	24	J	2	426	for showers
F	24	J	2	44	having thermosiphonic circulation
F	24	J	2	46	Component parts, details or accessories of solar heat collectors
					Safety or protection arrangements; Arrangements for preventing malfunction;
F	24	J	2	4607	Auxiliary devices, e.g. means for testing control means F24J2/40
F	24	J	2	4609	Protective covers, lids; closure members F24J2/50 takes precedence
F	24	J	2	461	Means for cleaning or for removing snow
F	24	J	2	4612	Means for preventing corrosion or protecting against contaminants, e.g. preventing condensations
F	24	J	2	4614	for draining rain water
F	24	J	2	4616	for maintaining vacuum, e.g. by using getters
F	24	J	2	4618	for preventing condensation
F	24	J	2	462	for deaerating or degassing the working fluid
F	24	J	2	4621	Means for overtemperature protection arrangements for draining the working fluid: F24J2/4634; Means for overpressure protection
F	24	J	2	4623	Arrangements for modifying heat collecting features, e.g. by defocusing or by changing the position of heat receiving elements
F	24	J	2	4625	Cooling arrangements, e.g. by using external heat dissipating means or internal cooling circuits F24J2/4627 takes precedence
F	24	J	2	4627	Arrangements for venting solar collector enclosures
F	24	J	2	4629	Arrangements for preventing overpressure inside solar collector enclosures F24J2/4627 takes precedence
F	24	J	2	463	Arrangements for preventing overpressure inside solar collector circuits
F	24	J	2	4632	Means for freezing protection arrangements for draining the working fluid: F24J2/4634
F	24	J	2	4634	Arrangements for draining the working fluid
F	24	J	2	4636	Arrangements to accommodate differential expansion of solar collector elements
F	24	J	2	4638	Arrangements for protecting solar collectors against adverse weather conditions F24J2/4609 takes precedence
F	24	J	2	464	Casings

F	24	J	2	4641	characterised by using specific material
F	24	J	2	4643	Plastic materials
F	24	J	2	4645	Metallic materials
F	24	J	2	4647	Means for fluidically interconnecting different solar collectors or for connecting solar connectors with other components; Headers; Fluid distributing means
F	24	J	2	4649	Selection of particular working medium materials for heat transfer C09K5/00
F	24	J	2	465	Arrangements of sealing means
F	24	J	2	4652	Solar heat collectors having absorber surfaces provided with special coatings, e.g. anti-reflective coatings
F	24	J	2	4654	Materials for the heat-exchange conduits F24J2/201, F24J2/243, F24J2/48 take precedence
F	24	J	2	48	characterised by absorber material
F	24	J	2	481	of metallic material F24J2/487 takes precedence
F	24	J	2	482	of plastic F24J2/488 takes precedence
F	24	J	2	484	of ceramic; of concrete; of natural stone F24J2/485 takes precedence
F	24	J	2	485	using absorber coatings radiation-absorbing paints C09D5/32
F	24	J	2	487	of metallic material
F	24	J	2	488	of plastic material
F	24	J	2	50	Transparent coverings
F	24	J	2	505	characterised by using specific material
F	24	J	2	506	plastic material
F	24	J	2	507	using evacuated elements F24J2/05 takes precedence
F	24	J	2	51	Thermal insulation F24J2/50 takes precedence
F	24	J	2	515	characterised by the material
F	24	J	2	52	Arrangement of mountings or supports
F	24	J	2	5201	Stationary supporting structures for solar modules; Load-bearing elements for movable supporting structures
F	24	J	2	5203	comprising elongated rigid mounting elements, e.g. mounting profiles or rails for covering a building surface with solar modules; Module frames F24J2/523 takes precedence
F	24	J	2	5205	Substantially planar profile assemblies, e.g. grids comprising coplanar profiles or stacked profiles
F	24	J	2	5207	comprising profiles of particular shape having in cross-section first and second module supporting portions for coupling adjacent solar modules
F	24	J	2	5209	Substantially coplanar profile assemblies comprising longitudinal profiles laterally coupled with transversal profiles
F	24	J	2	5211	Solar module peripheral frames
F	24	J	2	5228	comprising plate-like mounting elements, e.g. profiled or corrugated plates; Plate-like module frames F24J2/523 takes precedence
F	24	J	2	523	comprising elongated standing elements, e.g. posts, legs; Standing structures for supporting solar modules at defined orientation; Three-dimensional frameworks; Volumetric supporting structures, e.g. box-like elements or shaped bodies
F	24	J	2	5232	Posts coupled with upper profiles
F	24	J	2	5233	Profile arrangements, e.g. assemblies of base profiles with vertical or inclined profiles, three-dimensional frameworks F24J2/5232 takes precedence
F	24	J	2	5235	comprising bent plates or assemblies of plates

					comprising shaped bodies, e.g. molded box-like elements, concrete elements,
F	24	J	2	5237	foamed elements; Massive supporting structures
					Interconnected assemblies of stands; Stands having first and second module
F	24	J	2	5239	supporting portions for coupling adjacent modules
F	24	J	2	5241	comprising elongated non rigid elements, e.g. straps, wires, ropes
F	24	J	2	5243	Fixation means, e.g. connectors or fasteners
					Connectors for anchoring solar modules or supporting elements to the ground
F	24	J	2	5245	or to building structures
					in the form of bent strips or assemblies of strips; Hook-like connectors;
F	24	J	2	5247	Connectors to be mounted between building covering elements
					for anchoring to protrusions of buildings, e.g. to corrugations or to standing
F	24	J	2	5249	seams
					Ground anchoring means; Foundations for supporting elements; Massive
					elements for anchoring supporting structures to the ground or to flat horizontal
F	24	J	2	525	surfaces
					Connectors for fixing solar modules, or solar module peripheral frames to
F	24	J	2	5252	supporting elements, e.g. to profiled mounting members
F	24	J	2	5254	Solar module side connectors or base connectors
F	24	J	2	5256	Clamping or clipping elements
F	24	J	2	5258	with clamping action by using screw-threaded elements
					Connectors for coupling adjacent supporting elements together, e.g. profile to
F	24	J	2	526	profile connectors
					Connectors for coupling adjacent solar modules or solar module peripheral
F	24	J	2	5262	frames together F24J2/5252 takes precedence
					comprising means for adjusting the final position or the final orientation of a
					supporting element relative to another one or relative to a mounting surface;
F	24	J	2	5264	comprising means for compensating mounting tolerances
F	24	J	2	5266	adapted for non-rotary movement
F	24	J	2	5267	Waterborne solar collectors
F	24	J	2	5269	Moving platforms
					Airborne solar collectors, e.g. using inflated structures F24J2/0472,
F	24	J	2	5271	F24J2/5267 take precedence
F	24	J	2	54	specially adapted for rotary movement F24J2/5269 takes precedence
F	24	J	2	5403	with only one rotation axis
F	24	J	2	5406	with vertical axis
F	24	J	2	541	with horizontal axis
F	24	J	2	5413	with inclined axis
F	24	J	2	5417	with two rotation axis
F	24	J	2	542	with vertical primary axis
F	24	J	2	5424	with horizontal primary axis
F	24	J	2	5427	with inclined primary axis
F	24	J	2	5431	with more than two rotation axis or with multiple degrees of freedom
F	24	J	2002	003	Heat traps
F	24	J	2002	0038	Solar modules layout; Modular arrangements
					in the form of multiple rows and multiple columns, all solar modules being
F	24	J	2002	0046	coplanar
F	24	J	2002	0053	Coplanar arrangements with frame overlapping portions
F	24	J	2002	0061	Overlaying arrangements similar to roof tiles
F	24	J	2002	0069	Stepped arrangements, e.g. in parallel planes, without module overlapping
F	24	J	2002	0076	Non-parallel arrangements

F	24	J	2002	0084	Preventing shading effects
F	24	J	2002	0092	Arrangements of solar thermal modules combined with solar PV modules
F	24	J	2002	0405	having a particular shape, e.g. prismatic, pyramidal
F	24	J	2002	0411	in the form of louvers
F	24	J	2002	0416	allowing change of position for optimization of heat collection
F	24	J	2002	075	movable or adjustable
F	24	J	2002	1004	Special shape not covered by F24J2/1047 - F24J2/18
F	24	J	2002	1009	corrugated
F	24	J	2002	1014	curved
F	24	J	2002	1019	dish-shaped
F	24	J	2002	1023	trough-shaped
F	24	J	2002	1028	asymmetric
F	24	J	2002	1033	spiral
F	24	J	2002	1038	hyperbolic
F	24	J	2002	1042	involutes
F	24	J	2002	1061	Reflective elements inside solar collector casings
F	24	J	2002	1066	Microreflectors
F	24	J	2002	1071	in the form of reflective coatings
F	24	J	2002	1076	Reflectors layout
F	24	J	2002	108	Assemblies of spaced reflective elements on common support, e.g. Fresnel reflectors
F	24	J	2002	1085	Reflectors formed by assemblies of adjacent similar reflective facets
F	24	J	2002	109	Reflectors formed by assemblies of adjacent reflective elements having different orientation or different features
F	24	J	2002	1095	Assemblies of spaced reflective elements in the form of grids, e.g. vertical or inclined reflective elements extending over heat absorbing elements
F	24	J	2002	241	the conduits having a non-circular cross-section
F	24	J	2002	261	Special fins
F	24	J	2002	263	extending obliquely
F	24	J	2002	385	Calibration means; Methods for initial positioning of solar concentrators or solar receivers
F	24	J	2002	4601	Arrangements for heat transfer optimization
F	24	J	2002	4603	Flow guiding means; Inserts inside conduits
F	24	J	2002	4605	Arrangements for one-way heat transfer, e.g. thermal diodes
F	24	J	2002	4656	Arrangements for reinforcement of solar collector elements
F	24	J	2002	4658	Fastening; Joining
F	24	J	2002	4659	by using hook and loop-type fasteners
F	24	J	2002	4661	by using hooks
F	24	J	2002	4663	by clamping
F	24	J	2002	4665	by clipping, e.g. by using snap connectors
F	24	J	2002	4667	by screwed connection
F	24	J	2002	4669	by using threaded elements, e.g. stud bolts
F	24	J	2002	467	by using form-fitting connection means, e.g. tongue and groove
F	24	J	2002	4672	by using toothed elements
F	24	J	2002	4674	by deforming the material, e.g. by crimping or clinching
F	24	J	2002	4676	by bonding, e.g. by using adhesives
F	24	J	2002	4678	by welding or brazing
F	24	J	2002	4679	Joining different materials
F	24	J	2002	4681	Joining glass with non-glass elements
F	24	J	2002	4683	Selection of particular materials

F	24	J	2002	4685	Ceramics
F	24	J	2002	4687	Concrete
F	24	J	2002	4689	Foams
F	24	J	2002	469	Carbone, e.g. graphite
F	24	J	2002	4692	Plastics
F	24	J	2002	4694	Textiles; Fabrics
F	24	J	2002	4696	Natural materials, e.g. wood
F	24	J	2002	4698	Recycled materials
F	24	J	2002	501	Special shape
F	24	J	2002	502	in the form of multiple covering elements
F	24	J	2002	503	in the form of curved covering elements
F	24	J	2002	508	Transparent insulation; Convection preventing members
F	24	J	2002	5213	Special profiles
F	24	J	2002	5215	having hollow parts with closed cross-section
F	24	J	2002	5216	having circular or oval cross-section
F	24	J	2002	5218	having a central web, e.g. I-shaped, inverted T- shaped
F	24	J	2002	522	U-, C- or O-shaped; Hat profiles
F	24	J	2002	5222	in the form of corrugated profiles
F	24	J	2002	5224	having curved portions
F	24	J	2002	5226	having undercut grooves
F	24	J	2002	5273	Details; Special support components or methods
F	24	J	2002	5275	Arrangements for mounting elements inside solar collectors; Spacers inside solar collectors
F	24	J	2002	5277	Foldable support elements
F	24	J	2002	5279	Stackable support elements
F	24	J	2002	5281	Methods for installing support elements
F	24	J	2002	5283	Supports with play between elements
F	24	J	2002	5284	Filling or spacing means; Elastic means
F	24	J	2002	5286	Tensioning means
F	24	J	2002	5288	Means for preventing movements, e.g. stops
F	24	J	2002	529	Means for accommodating irregularities on mounting surface; Tolerance compensation means
F	24	J	2002	5292	Ballasting means
F	24	J	2002	5294	Sealing means between support elements and mounting surface
F	24	J	2002	5296	Sealing means between support elements, e.g. overlapping arrangements; Gap closing arrangements
F	24	J	2002	5298	Means for preventing theft; Locking means
F	24	J	2002	5434	Special components
F	24	J	2002	5437	Driving means
F	24	J	2002	5441	hydraulic or pneumatic
F	24	J	2002	5444	Coupling means
F	24	J	2002	5448	Transmissions
F	24	J	2002	5451	in the form of articulated bars
F	24	J	2002	5455	in the form of compasses, scissors or parallelograms
F	24	J	2002	5458	in the form of flexible elements, e.g. belts, chains, ropes
F	24	J	2002	5462	in the form of gearings or rack-and-pinion transmissions
F	24	J	2002	5465	in the form of threaded elements
F	24	J	2002	5468	for moving several solar collectors by common transmission elements
F	24	J	2002	5472	for deriving one movement from another one, e.g. for deriving elevation movement from azimuth movement

F	24	J	2002	5475	Movement guiding means
F	24	J	2002	5479	Tracks
F	24	J	2002	5482	Bearings
F	24	J	2002	5486	Hinged elements; Pin connections
F	24	J	2002	5489	Spherical joints
F	24	J	2002	5493	Load balancing means, e.g. use of counter-weights
F	24	J	2002	5496	Movement dampening means; Braking means
F	24	J	2003	087	Component parts, details or accessories
F	24	J	2003	088	Methods for installation
F	24	J	2003	089	Control arrangements
F	24	J	2200	00	PredictionSimulation
F	24	J	2200	04	for solar techniques
F	24	J	2200	06	for geothermal techniques
F	24	J	3	00	Other production or use of heat, not derived from combustion use of solar heat F24J2/00
F	24	J	3	003	using heat resulting from internal friction of a moving fluid or from friction between a fluid and a moving body
F	24	J	3	006	the fluid passing through a restriction means
F	24	J	3	06	using natural heat
F	24	J	3	08	using geothermal heat
F	24	J	3	081	by circulating a working fluid through underground channels, the working fluid not coming into direct contact with the ground
F	24	J	3	082	Compact tube assemblies inserted into the ground, e.g. geothermal probes
F	24	J	3	083	in the form of bent tubes or in the form of tubes assembled with connectors or with return headers
F	24	J	3	084	in the form of tubes being closed at one end, i.e. return type
F	24	J	3	085	by injecting a working fluid directly into the ground or by using underground water, e.g. systems using injection and recovery wells
F	24	J	3	086	by injecting a working fluid into a closed well; by using intermediate working fluids, e.g. by using heat pipes
F	25	C	1	225	Filling devices for moulds
F	25	C	5	002	Distributing ice
F	25	C	5	005	particularly adapted for household refrigerators
F	25	C	5	007	for storing bins ice bins in general F25C5/182
F	25	C	5	16	Tools or devices for ice handling not covered by any other subclass
F	41	G	2700	00	Torpedoes
F	41	G	2700	005	Remote steering of torpedoes by means of electric or acoustic waves or otherwise
G	01	N	2033	57403	of breast
G	01	N	2033	57453	of lung
G	01	N	2033	57457	of skin
G	01	N	2033	57461	of liver, pancreas or kidney
G	01	N	2033	57465	of stomach or intestine
G	01	N	23	063	X-ray absorption fine structure, i.e. EXAFS G01N23/2076 takes precedence
G	01	N	23	066	Gamma-ray resonance absorption, e.g. Mössbauer effect resonant absorbers or driving arrangements therefor, e.g. for Mössbauer effect devices G21K1/12
G	01	N	23	08	using electric detection means

G	01	N	23	14	specially adapted for controlling or monitoring operations or for signalling
G	01	N	23	206	the radiation being neutrons G01N23/2055 takes precedence
G	01	N	33	203	for the presence of a volatilizable, e.g. gaseous component
G	01	N	33	206	in molten state, e.g. after local fusion
G	01	R	2031	3603	Deleted
G	01	R	31	3606	Monitoring, i.e. measuring or determining some variables continuously or repeatedly over time, e.g. current, voltage, temperature, state-of-charge [SoC] or state-of-health [SoH] G01R31/3627, G01R31/3644 take precedence
G	01	R	31	361	using current integration
G	01	R	31	3613	without voltage measurement
G	01	R	31	3617	using analog integrators, e.g. coulomb-meters
G	01	R	31	362	based on measuring voltage only by comparing voltage with a reference value G01R19/16542
G	01	R	31	3624	based on combined voltage and current measurement G01R31/361 takes precedence
G	01	R	31	3627	Testing, i.e. making a one-time determination of some variables, e.g. testing ampere-hour charge capacity G01R31/3644 takes precedence
G	01	R	31	3631	based on the use of test loads
G	01	R	31	3634	for determining the ampere-hour charge capacity or state-of-charge (SoC) G01R31/3631 takes precedence
G	01	R	31	3637	based on voltage measurements
G	01	R	31	3641	related to manufacture, e.g. testing after manufacture
G	01	R	31	3651	Software aspects, e.g. battery modeling, using look-up tables, neural networks
G	01	R	31	3655	the digital calculation means being combined with the battery or battery pack
G	01	R	31	3658	for testing or monitoring individual cells or groups of cells in a battery
G	01	R	31	3662	involving measuring the internal battery impedance, conductance or related variables
G	01	R	31	3665	whereby the type of battery is of primary emphasis, e.g. determining the type of battery
G	01	R	31	3668	Lead-acid batteries
G	01	R	31	3672	Primary cells, i.e. not rechargeable
G	01	R	31	3675	for compensating for temperature or ageing
G	01	R	31	3679	for determining battery ageing or deterioration, e.g. state-of-health (SoH), state-of-life (SoL)
G	01	R	31	3682	for indicating electrical conditions or variables, e.g. visual or audible indicators
G	01	R	31	3686	the indicator being combined with the battery
G	01	R	31	3689	the indication being remote from the battery
G	01	R	31	3693	for determining the ability of a battery to perform a critical function, e.g. cranking
G	01	R	31	3696	Battery pole connectors combined with measurement function end pieces for connections to batteries H01R11/281
G	02	F	1	1521	based on oxidation reduction in organic liquid solutions, e.g. viologens solutions
G	02	F	1	1527	based on iridium oxide or hydroxide
G	02	F	2001	1504	having an inorganic electrochromic layer and a second solid organic electrochromic layer

G	02	F	2001	151	the electrochromic material comprises ferrocene compounds
G	02	F	2001	1512	the electrochromic layer comprises a mixture of anodic and cathodic compounds
G	02	F	2001	1515	the electrochromic material is made of polymer
G	02	F	2001	1519	the electrolyte is made of polymer
G	02	F	2001	1672	of the microcup type
G	02	F	2001	1674	comprising a dry toner particle
G	02	F	2001	1676	having a particular electrode
G	03	G	15	0824	Detection or control means for the toner concentration
G	03	G	15	0825	the concentration being measured by electrical means
G	03	G	15	0827	the concentration being measured by optical means
G	03	G	15	0829	the concentration being measured by magnetic means
G	03	G	15	0831	Detection means for the toner level
G	03	G	15	0832	Arrangements for supplying new toner; Toner cartridges
G	03	G	15	0834	Toner cartridges fulfilling a continuous function within the electrographic apparatus during the use of the supplied developer material, e.g. toner discharge on demand, storing residual toner, not acting as a passive closure for the developer replenishing opening
G	03	G	15	0836	Toner cartridges having a longitudinal rotational axis, around which at least one part is rotated when mounting or using the cartridge G03G15/0834 takes precedence
G	03	G	15	0837	the toner cartridges being generally horizontally mounted parallel to its longitudinal rotational axis
G	03	G	15	0839	Arrangements for metering and dispensing toner into the development sump; Toner hoppers; Augers
G	03	G	15	0841	Toner cartridges using a peelable sealing film resealing used developer units before refilling G03G15/0894
G	03	G	15	0843	Toner cartridges using a sealing film to be ruptured or cut
G	03	G	15	0846	Arrangements for conditioning developer in the developing sump, e.g. removing impurities or humidity
G	03	G	15	2067	with retractable fixing or pressure unit
G	03	G	15	2071	for maintenance purpose, e.g. for removing a jammed sheet
G	03	G	15	2075	with special means for lubricating and/or cleaning the fuser unit, e.g. applying offset preventing fluid
G	03	G	15	2078	with means for controlling and/or regulating the fixing temperature
G	03	G	15	2082	specially the axial heat repartition
G	03	G	15	2085	with means for handling the copy material in the fuser nip, e.g. introduction guides, stripping means
G	03	G	15	2089	Details of pressure units, e.g. structure
G	05	D	16	0602	two controllers being mounted in series
G	05	D	16	0605	two controllers being mounted in parallel
G	06	F	15	18	in which a programme is changed according to experience gained by the computer itself during a complete runLearning machines adaptive control systems G05B13/00not used, seeG06N99/005
G	06	F	17	30	Information retrievalDatabase structures therefor ; File system structures therefor data processing systems or methods specially adapted for administrative, commercial, financial managerial, supervisory or forecasting purposes G06Q
G	06	F	17	30002	Interfaces; Database management systems; Updating

G	06	F	17	30005	File format conversion code conversion circuits or methods H03M5/00, H03M7/00
G	06	F	17	30008	Concurrency control and recovery G06F11/1402 takes precedence; transaction processing G06F9/466
G	06	F	17	30011	Document retrieval systems
G	06	F	17	30014	Hypermedia hyperlinking within text processing G06F17/2235
G	06	F	17	30017	Multimedia data retrieval; Retrieval of more than one type of audiovisual media retrieval of image data G06F17/30244; retrieval of video data G06F17/30781; retrieval of audio data G06F17/3074; editing or indexing of data stored based on relative movement between record carrier and transducer G11B27/00
G	06	F	17	3002	Indexing indexing by using information signals detectable on the record carrier and recorded by the same method as the main recording G11B27/28
G	06	F	17	30023	Querying programmed access in sequence to addressed parts of tracks of operating discs G11B27/105
G	06	F	17	30026	using audio data details of audio retrieval G06F17/3074; general determination or detection of speech characteristics G10L25/00; speech recognition G10L15/00; speaker recognition G10L17/00; electrophonic musical instruments G10H
G	06	F	17	30029	by filtering; by personalisation, e.g. querying making use of user profiles
G	06	F	17	30032	using biological or physiological data of a human being, e.g. blood pressure, facial expression, gestures
G	06	F	17	30035	Administration of user profiles, e.g. generation, initialisation, adaptation, distribution
G	06	F	17	30038	based on information manually generated or based on information not derived from the media content, e.g. tags, keywords, comments, usage information, user ratings
G	06	F	17	30041	using location information
G	06	F	17	30044	using time information
G	06	F	17	30047	using image data, e.g. images, photos, pictures taken by a user
G	06	F	17	3005	Presentation of query results menu, index or table of content presentation of record carriers G11B27/32, G11B27/34
G	06	F	17	30053	by the use of playlists
G	06	F	17	30056	Multimedia presentations, e.g. slide shows, multimedia albums
G	06	F	17	30058	Retrieval by browsing and visualisation of multimedia data trick modes G11B27/005; browsing through video recorded on operating discs G11B27/105
G	06	F	17	30061	Spatial browsing, e.g. 2D maps, 3D or virtual spaces interaction with 3D GUI environments in general G06F3/04815
G	06	F	17	30064	Temporal browsing, e.g. timeline
G	06	F	17	30067	File systems; File servers G06F17/3061, G06F17/30017, G06F17/30244, G06F17/3074, G06F17/30781 take precedence; dedicated interfaces to storage systems G06F3/0601; error detection, correction or monitoring G06F11/00
G	06	F	17	3007	File system administration file or folder operations G06F17/30115
G	06	F	17	30073	Details of archiving details of hierarchical storage management [HSM] systems G06F17/30221; lifecycle management in storage systems G06F3/0649; backup systems G06F11/1446

G	06	F	17	30076	Details of conversion of file system types or formats management of the data involved in backup or backup restore G06F11/1448
G	06	F	17	30079	Details of migration of file systems migration mechanisms in storage systems G06F3/0647
G	06	F	17	30082	Use of management policies file migration policies for HSM systems G06F17/30221; backup systems G06F11/1446
G	06	F	17	30085	characterised by the use of retention policies retention policies for HSM systems G06F17/30221
G	06	F	17	30088	Details of file system snapshots on the file-level, e.g. snapshot creation, administration, deletion use of snapshots for error detection or correction G06F11/14, G06F11/16
G	06	F	17	30091	File storage and access structures management of files in storage systems G06F3/0643
G	06	F	17	30094	Distributed indices
G	06	F	17	30097	Hash-based content-based indexing of textual data G06F17/30613
G	06	F	17	301	Details of searching files based on file metadata
G	06	F	17	30103	Query formulation
G	06	F	17	30106	File search processing
G	06	F	17	30109	using file content signatures, e.g. hash values
G	06	F	17	30112	Query results presentation
G	06	F	17	30115	File and folder operations
G	06	F	17	30117	Delete operations erasing in storage systems G06F3/0652
G	06	F	17	3012	File meta data generation
G	06	F	17	30123	File name conversion management of the data involved in backup or backup restore G06F11/1448
G	06	F	17	30126	Details of user interfaces specifically adapted to file systems, e.g. browsing and visualisation, 2d or 3d GUIs query results presentation G06F17/30112; interaction techniques for graphical user interfaces G06F3/048
G	06	F	17	30129	Details of further file system functionalities
G	06	F	17	30132	Caching or prefetching or hoarding of files caching for data retrieval from the Internet G06F17/30902; caching for peripheral storage systems, e.g. disk cache G06F12/0866; network-specific arrangements or communication protocols for caching H04L67/2842
G	06	F	17	30135	Details of de-fragmentation performed by the file system management of blocks in storage devices G06F3/064; saving storage space on storage systems G06F3/0608
G	06	F	17	30138	Details of free space management performed by the file system management of blocks in storage devices G06F3/064; saving storage space on storage systems G06F3/0608
G	06	F	17	30141	Customisation support for file systems, e.g. localisation, multi-language support, personalisation
G	06	F	17	30144	Details of monitoring file system events, e.g. by the use of hooks, filter drivers, logs
G	06	F	17	30147	for reducing power consumption or coping with limited storage space, e.g. in mobile devices saving storage space on storage devices G06F3/0608; power saving in storage systems G06F3/0625
G	06	F	17	3015	Redundancy elimination performed by the file system management of the data involved in backup or backup restore using de-duplication of the data G06F11/1453

					using compression, e.g. sparse files details of compression H03M7/30;
G	06	F	17	30153	protocols for data compression H04L69/04
					De-duplication implemented within the file system, e.g. based on file segments de-duplication techniques in storage systems for the management of data
G	06	F	17	30156	blocks G06F3/0641
G	06	F	17	30159	based on file chunks
G	06	F	17	30162	based on delta files
G	06	F	17	30165	Support for shared access to files, file-sharing support
G	06	F	17	30168	Concurrency control, e.g. optimistic or pessimistic approaches
G	06	F	17	30171	Locking methods, e.g. locking methods for file systems allowing shared and concurrent access to files
					Techniques for file synchronisation in file systems change detection G06F17/30144; file management policies in general G06F17/30082; distributed file systems G06F17/30194; synchronisation of structured data G06F17/30575; protocols for data synchronisation between network nodes
G	06	F	17	30174	H04L67/1095
G	06	F	17	30176	Details of non-transparently synchronising file systems
G	06	F	17	30179	Details of file format conversion
G	06	F	17	30182	File system types
G	06	F	17	30185	Append-only file systems, e.g. using logs or journals to store data
G	06	F	17	30188	providing write once read many [WORM] semantics
G	06	F	17	30191	Journaling file systems
G	06	F	17	30194	Distributed file systems
					implemented using NAS architecture distributed or networked storage systems G06F3/067; protocols for distributed storage of data in a network
G	06	F	17	30197	H04L67/1097
					Details of management specifically adapted to network area storage [NAS]
G	06	F	17	302	management of NAS or SAN G06F3/067
					Details of providing network file services by network file servers, e.g. by using
G	06	F	17	30203	NFS, CIFS network file access protocols H04L67/1097
					implemented based on peer-to-peer networks, e.g. gnutella p2p
G	06	F	17	30206	communication protocols H04L67/104
					Details of management specifically adapted to peer-to-peer storage networks
G	06	F	17	30209	topology management mechanisms of peer-to-peer networks H04L67/1042
G	06	F	17	30212	implemented as replicated file system
G	06	F	17	30215	Details of management specifically adapted to replicated file systems
					specifically adapted to static storage, e.g. adapted to flash memory, SSD dedicated interfaces to non-volatile semiconductor memory device G06F3/0679; dedicated interfaces to non-volatile semiconductor memory
G	06	F	17	30218	arrays G06F3/0688
					Details of hierarchical storage management [HSM] systems, e.g. file migration and policies thereof details of archiving G06F17/30073; life cycle management G06F3/0649; hybrid storage combining heterogeneous device types
G	06	F	17	30221	G06F3/0685
G	06	F	17	30224	Parallel file systems, i.e. file systems supporting multiple processors
G	06	F	17	30227	Transactional file systems commit processing in structured data stores G06F17/30377
G	06	F	17	3023	Versioning file systems, temporal file systems, e.g. file system supporting different historic versions of, e.g. files

G	06	F	17	30233	Virtual file systems
G	06	F	17	30235	Implementing virtual folder structures
G	06	F	17	30238	Specific adaptations of the file system to access devices and non-file objects via standard file system access operations, e.g. pseudo file systems dedicated interfaces to storage systems G06F3/0601
G	06	F	17	30241	in geographical information databases instruments for geographical navigation G01C21/00; three dimensional geographic models G06T17/05
G	06	F	17	30244	in image databases
G	06	F	17	30247	based on features automatically derived from the image data pattern recognition G06K9/00
G	06	F	17	3025	using colour
G	06	F	17	30253	using extracted text
G	06	F	17	30256	using a combination of image content features
G	06	F	17	30259	using shape and object relationship
G	06	F	17	30262	using texture
G	06	F	17	30265	based on information manually generated or based on information not derived from the image data
G	06	F	17	30268	using information manually generated, e.g. tags, keywords, comments, manually generated location and time information
G	06	F	17	30271	the images having vectorial formats
G	06	F	17	30274	by browsing
G	06	F	17	30277	by graphical querying
G	06	F	17	3028	data organisation and access thereof
G	06	F	17	30283	using distributed data base systems, e.g. networks
G	06	F	17	30286	in structured data stores
G	06	F	17	30289	Database design, administration or maintenance
G	06	F	17	30292	Schema design and management
G	06	F	17	30294	with details for data modelling support
G	06	F	17	30297	with details for schema evolution support
G	06	F	17	303	Database migration support
G	06	F	17	30303	Improving data quality; Data cleansing
G	06	F	17	30306	Database tuning G06F17/30339 takes precedence; database performance monitoring G06F11/3409
G	06	F	17	30309	Managing data history or versioning querying temporal data G06F17/30551; querying versioned data G06F17/30548
G	06	F	17	30312	Storage and indexing structures; Management thereof
G	06	F	17	30315	Column-oriented storage; Management thereof
G	06	F	17	30318	Details of Large Object storage; Management thereof
G	06	F	17	30321	Indexing structures indexing structures for unstructured textual data G06F17/30619
G	06	F	17	30324	Vectors, bitmaps or matrices
G	06	F	17	30327	Trees, e.g. B+trees
G	06	F	17	3033	Hash tables
G	06	F	17	30333	Multidimensional index structures
G	06	F	17	30336	indexing structure managing details
G	06	F	17	30339	Tablespace storage structures; Management thereof
G	06	F	17	30342	Details of User-Defined Types; Storage management thereof
G	06	F	17	30345	Update requests
G	06	F	17	30348	Concurrency control transaction processing G06F9/466
G	06	F	17	30351	Optimistic concurrency control

G	06	F	17	30353	using timestamps
G	06	F	17	30356	using versioning
G	06	F	17	30359	Pessimistic concurrency control approaches, e.g. locking, multiple versions without time stamps
G	06	F	17	30362	Locking methods, e.g. distributed locking, locking implementation details
G	06	F	17	30365	Update request formulation
G	06	F	17	30368	Change logging, detection, and notification replication G06F17/30575
G	06	F	17	30371	Ensuring data consistency and integrity
G	06	F	17	30374	Details of updates performed during offline database operations
G	06	F	17	30377	Details of updates performed during online database operations; commit processing
G	06	F	17	3038	Details of bulk updating operations data conversion details G06F17/30569
G	06	F	17	30383	Updating materialised views
G	06	F	17	30386	Retrieval requests
G	06	F	17	30389	Query formulation interaction techniques for graphical user interfaces G06F3/048
G	06	F	17	30392	Interactive query statement specification based on a database schema
G	06	F	17	30395	Iterative querying; query formulation based on the results of a preceding query
G	06	F	17	30398	Query predicate definition using graphical user interfaces, including menus and forms G06F17/30392 takes precedence
G	06	F	17	30401	Natural language query formulation natural language analysis, translation, semantics G06F17/27, G06F17/28
G	06	F	17	30404	Query languages
G	06	F	17	30407	Active constructs
G	06	F	17	3041	Embedded query languages
G	06	F	17	30412	Grouping and aggregation
G	06	F	17	30415	Stored procedures
G	06	F	17	30418	Data retrieval commands; view definitions
G	06	F	17	30421	for particular applications; for extensibility, e.g. user defined types
G	06	F	17	30424	Query processing
G	06	F	17	30427	Query translation
G	06	F	17	3043	Translation of natural language queries to structured queries natural language analysis, translation, semantics G06F17/27, G06F17/28
G	06	F	17	30433	Access plan code generation and invalidation; reuse of access plans
G	06	F	17	30436	Internal representations for queries
G	06	F	17	30439	Standardisation and Simplification
G	06	F	17	30442	Query optimisation
G	06	F	17	30445	for parallel queries
G	06	F	17	30448	Query rewriting and transformation
G	06	F	17	30451	of sub-queries or views
G	06	F	17	30454	of operators
G	06	F	17	30457	to use cached/materialised query results
G	06	F	17	3046	Optimising common expressions
G	06	F	17	30463	Plan optimisation
G	06	F	17	30466	Join order optimisation
G	06	F	17	30469	Selectivity estimation or determination
G	06	F	17	30471	Optimisations to support specific applications; extensibility of optimisers
G	06	F	17	30474	Run-time optimisation
G	06	F	17	30477	Query execution

G	06	F	17	3048	Database cache management
G	06	F	17	30483	of query operations
G	06	F	17	30486	Unary operations; data partitioning operations
G	06	F	17	30489	Aggregation and duplicate elimination
G	06	F	17	30492	Efficient disk access during query execution
G	06	F	17	30495	Binary matching operations
G	06	F	17	30498	Join operations
G	06	F	17	30501	Intermediate data storage techniques for performance improvement
G	06	F	17	30504	Pointer and reference processing operations
G	06	F	17	30507	Applying rules; deductive queries
G	06	F	17	3051	Triggers and constraints
G	06	F	17	30513	Recursive queries
G	06	F	17	30516	Data stream processing; continuous queries
G	06	F	17	30519	Query processing with adaptation to specific hardware, e.g. adapted for using GPUs or SSDs
G	06	F	17	30522	Query processing with adaptation to user needs
G	06	F	17	30525	using data annotations (user-defined metadata)
G	06	F	17	30528	using context
G	06	F	17	3053	using ranking
G	06	F	17	30533	Other types of queries
G	06	F	17	30536	Approximate and statistical query processing
G	06	F	17	30539	Query processing support for facilitating data mining operations in structured databases
G	06	F	17	30542	Fuzzy query processing
G	06	F	17	30545	Distributed queries
G	06	F	17	30548	Querying sequence data, e.g. querying versioned data
G	06	F	17	30551	Querying temporal data
G	06	F	17	30554	Query result display and visualisation
G	06	F	17	30557	Details of integrating or interfacing systems involving at least one database management system
G	06	F	17	3056	between a Database Management System and a front-end application
G	06	F	17	30563	Details for extract, transform and load [ETL] procedures, e.g. ETL data flows in data warehouses
G	06	F	17	30566	in federated and virtual databases distributed queries G06F17/30545
G	06	F	17	30569	Details of data format conversion from or to a database
G	06	F	17	30572	Visual data mining and browsing structured data
G	06	F	17	30575	Replication, distribution or synchronisation of data between databases or within a distributed database; Distributed database system architectures therefor
G	06	F	17	30578	Details of asynchronous replication and data reconciliation
G	06	F	17	30581	Details of synchronous replication
G	06	F	17	30584	Details of data partitioning, e.g. horizontal or vertical partitioning
G	06	F	17	30587	Details of specialised database models
G	06	F	17	30589	Hierarchical databases, e.g. IMS, LDAP data stores, Lotus Notes
G	06	F	17	30592	Multi-dimensional databases and data warehouses, e.g. MOLAP, ROLAP
G	06	F	17	30595	Relational databases
G	06	F	17	30598	Clustering or classification for textual data G06F17/30705
G	06	F	17	30601	including cluster or class visualization or browsing for textual data G06F17/30713
G	06	F	17	30604	Entity relationship models

G	06	F	17	30607	Object oriented databases
G	06	F	17	3061	of unstructured textual data document management systems G06F17/30011
G	06	F	17	30613	Indexing
G	06	F	17	30616	Selection or weighting of terms for indexing G06F17/30663 takes precedence; for summarization G06F17/30719
G	06	F	17	30619	indexing structures indexing structures for structured data stores G06F17/30321
G	06	F	17	30622	Inverted lists
G	06	F	17	30625	Trees
G	06	F	17	30628	Hash tables
G	06	F	17	30631	Index managing details
G	06	F	17	30634	Querying
G	06	F	17	30637	Query formulation
G	06	F	17	3064	using system suggestions G06F17/30646 takes precedence
G	06	F	17	30643	using document space presentation or visualization, e.g. category, hierarchy or range presentation and selection
G	06	F	17	30646	reformulation based on results of preceding query
G	06	F	17	30648	using relevance feedback from the user, e.g. relevance feedback on documents, documents sets, document terms or passages
G	06	F	17	30651	using graphical result space presentation or visualisation
G	06	F	17	30654	Natural language query formulation or dialogue systems
G	06	F	17	30657	Query processing
G	06	F	17	3066	Query translation
G	06	F	17	30663	Selection or weighting of terms from queries, including natural language queries
G	06	F	17	30666	Syntactic pre-processing steps, e.g. stopword elimination, stemming lexical analysis G06F17/277, G06F8/425
G	06	F	17	30669	Translation of the query language, e.g. Chinese to English language translation G06F17/28
G	06	F	17	30672	Query expansion
G	06	F	17	30675	Query execution G06F17/30699 takes precedence
G	06	F	17	30678	using boolean model
G	06	F	17	30681	using phonetics
G	06	F	17	30684	using natural language analysis
G	06	F	17	30687	using probabilistic model
G	06	F	17	3069	using vector based model
G	06	F	17	30693	Reuse of stored results of previous queries for formulation of new queries G06F17/30646
G	06	F	17	30696	Presentation or visualization of query results G06F17/30651 takes precedence; browsing or visualization of document space G06F17/30716
G	06	F	17	30699	Filtering based on additional data, e.g. user or group profiles filtering in web context G06F17/30867
G	06	F	17	30702	Profile generation, learning or modification
G	06	F	17	30705	Clustering or classification manual classification G06F17/30722
G	06	F	17	30707	into predefined classes
G	06	F	17	3071	including class or cluster creation or modification
G	06	F	17	30713	including cluster or class visualization or browsing
G	06	F	17	30716	Browsing or visualization
G	06	F	17	30719	Summarization for human users

G	06	F	17	30722	based on associated metadata or manual classification, e.g. bibliographic data
G	06	F	17	30725	using identifiers, e.g. barcodes, RFIDs for URLs G06F17/30879
G	06	F	17	30728	using citations hypermedia G06F17/30014
G	06	F	17	30731	Creation of semantic tools
G	06	F	17	30734	Ontology
G	06	F	17	30737	Thesaurus
					Audio data retrieval retrieval of video data G06F17/30781; retrieval of multimedia data G06F17/30017; general determination or detection of speech characteristics G10L25/00; speech recognition G10L15/00; speaker recognition G10L17/00; electrophonic musical instruments G10H; editing or indexing of data stored based on relative movement between record carrier
G	06	F	17	3074	and transducer G11B27/00
					using features automatically derived from the audio content, e.g. descriptors, fingerprints, signatures, MEP-cepstral coefficients, musical score, tempo content oriented musical parameter indexing, e.g. tempo G10H; determination or detection of speech characteristics G10L25/00; audio watermarking, e.g. by inserting fingerprints G10L19/018; indexing by using information signals detectable on the record carrier and recorded by the same method as the
G	06	F	17	30743	main recording G11B27/28
					using automatically derived transcript of audio data, e.g. lyrics speech
G	06	F	17	30746	recognition G10L15/00
					using information manually generated or using information not derived from the audio data, e.g. title and artist information, time and location information, usage information, user ratings programmed access in sequence to
G	06	F	17	30749	addressed parts of tracks of operating discs G11B27/105
					using information manually generated, e.g. tags, keywords, comments, title or
G	06	F	17	30752	artist information, time, location or usage information, user ratings
G	06	F	17	30755	Query formulation specially adapted for audio data retrieval
G	06	F	17	30758	Query by example, e.g. query by humming
G	06	F	17	30761	Filtering; personalisation, e.g. querying making use of user profiles
G	06	F	17	30764	by using biological or physiological data
					Administration of user profiles, e.g. generation, initialization, adaptation,
G	06	F	17	30766	distribution
					Presentation of query results menu, index or table of content presentation of
G	06	F	17	30769	record carriers G11B27/32, G11B27/34
G	06	F	17	30772	making use of playlists
					Browsing generation of a list or set of audio data G06F17/30772; trick modes G11B27/005; browsing through audio recorded on operating discs
G	06	F	17	30775	G11B27/105
G	06	F	17	30778	Audio database index structures and management thereof
					of video data recognising patterns G06K9/00; image analysis G06T7/00; editing or indexing information signals on a record carrier in which information is recorded and accessed based on relative movement between record carrier and transducer G11B27/00; source coding or decoding of digital video signal H04N19/00; selective content distribution, e.g. interactive television, video on
G	06	F	17	30781	demand H04N21/00

					using features automatically derived from the video content, e.g. descriptors, fingerprints, signatures, genre recognising video content G06K9/00711; extraction of features or characteristics for pattern recognition of the image
G	06	F	17	30784	G06K9/46
					using audio features general determination or detection of speech characteristics G10L25/00; speech recognition G10L15/00; speaker recognition G10L17/00; contents oriented musical parameter indexing, e.g.
G	06	F	17	30787	tempo G10H
					using objects detected or recognised in the video content methods for image acquisition of a pattern to be recognized involving target detection
G	06	F	17	3079	G06K9/3241
					the detected or recognised objects being people face recognition G06K9/00221; human body recognition G06K9/00369; speaker recognition
G	06	F	17	30793	G10L17/00
					using original textual content or text extracted from visual content or transcript
G	06	F	17	30796	of audio data extraction of overlay text G06K9/3266
					using low-level visual features of the video content methods for preprocessing an image in order to extract features of a pattern to be recognized G06K9/46;
G	06	F	17	30799	image processing involving image features extraction in general G06T
G	06	F	17	30802	using colour or luminescence colour analysis on image data G06T7/90
					using shape G06F17/3079 takes precedence; segmentation or edge detection on image data G06T7/10; analysis of geometric attributes on image data
G	06	F	17	30805	G06T7/60
					using texture G06F17/3079 takes precedence; texture analysis on image data
G	06	F	17	30808	G06T7/41, G06T7/49
					using motion, e.g. object motion, camera motion motion analysis on image
G	06	F	17	30811	data G06T7/20
G	06	F	17	30814	using domain-transform features, e.g. DCT, wavelet transform coefficients
					using information manually generated or using information not derived from the video content, e.g. time and location information, usage information, user
G	06	F	17	30817	ratings
					using information manually generated, e.g. tags, keywords, comments, title and artist information, manually generated time, location and usage
G	06	F	17	3082	information, user ratings
					Query formulation and processing specifically adapted for the retrieval of video
G	06	F	17	30823	data
					Query by example, e.g. a complete video frame or video sequence graphical
G	06	F	17	30825	querying G06F17/30831
G	06	F	17	30828	Filtering and personalisation; User profiles
					Graphical querying, e.g. query-by-region, query-by-sketch, query-by-trajectory, GUIs for designating a person/face/object as a query predicate end-user interface involving hot spots associated with the video H04N21/4725; end-
G	06	F	17	30831	user interface for selecting a Region of Interest H04N21/4728
G	06	F	17	30834	Query language or query format
					Query results presentation or summarisation specifically adapted for the retrieval of video data end-user interface for requesting or interacting with video content, e.g. video on demand interface or electronic program guide
G	06	F	17	30837	H04N21/472

G	06	F	17	3084	Presentation of query results G06F17/30843 takes precedence; browsing a video collection G06F17/30849
G	06	F	17	30843	Presentation in form of a video summary, e.g. the video summary being a video sequence, a composite still image or having synthesized frames
G	06	F	17	30846	Browsing of video data end-user interface for requesting or interacting with video content, e.g. video on demand interface or electronic program guide H04N21/472; indicating arrangements in the context of indexing and addressing recorded information G11B27/34
G	06	F	17	30849	Browsing a collection of video files or sequences
G	06	F	17	30852	Browsing the internal structure of a single video sequence
G	06	F	17	30855	Hypervideo linking data to content, e.g. by linking an URL to a video object in the context of video distribution systems H04N21/858
G	06	F	17	30858	Video database index structures or management thereof table of contents on a record carrier G11B27/327
G	06	F	17	30861	Retrieval from the Internet, e.g. browsers internet protocol H04L29/06095
G	06	F	17	30864	by querying, e.g. search engines or meta-search engines, crawling techniques, push systems
G	06	F	17	30867	with filtering and personalisation
G	06	F	17	3087	Spatially dependent indexing and retrieval, e.g. location dependent results to queries
G	06	F	17	30873	by navigation, e.g. using categorized browsing, portals, synchronized browsing, visual networks of documents, virtual worlds or tours
G	06	F	17	30876	by using information identifiers, e.g. encoding URL in specific indicia, browsing history
G	06	F	17	30879	by using bar codes
G	06	F	17	30882	details of hyperlinks; management of linked annotations
G	06	F	17	30884	Bookmark management
G	06	F	17	30887	URL specific, e.g. using aliases, detecting broken or misspelled links address allocation to terminals or nodes connected to a network H04L29/12009
G	06	F	17	3089	Web site content organization and management, e.g. publishing, automatic linking or maintaining pages
G	06	F	17	30893	Access to data in other repository systems, e.g. legacy data or dynamic Web page generation
G	06	F	17	30896	Document structures and storage, e.g. HTML extensions
G	06	F	17	30899	Browsing optimisation
G	06	F	17	30902	of access to content, e.g. by caching accessing, addressing or allocating within memory systems and caches G06F12/08
G	06	F	17	30905	Optimising the visualization of content, e.g. distillation of HTML documents
G	06	F	17	30908	of semistructured data, the undelying structure being taken into account, e.g. mark-up language structure data
G	06	F	17	30911	Indexing, e.g. of XML tags
G	06	F	17	30914	Mapping or conversion
G	06	F	17	30917	Mapping to a database
G	06	F	17	3092	Mark-up to mark-up conversion conversion for visualization in web browsing G06F17/30905
G	06	F	17	30923	XML native databases, structures and querying
G	06	F	17	30926	Query formulation
G	06	F	17	30929	Query processing

G	06	F	17	30932	Query translation
G	06	F	17	30935	Query optimisation
G	06	F	17	30938	Query execution
G	06	F	17	30941	Results presentation
G	06	F	17	30943	details of database functions independent of the retrieved data type
G	06	F	17	30946	indexing structures indexing structures for specific data types G06F17/30067, G06F17/30619, G06F17/30321
G	06	F	17	30949	hash tables hashing functions for network address lookup or routing in networks H04L45/00
G	06	F	17	30952	using directory or table look-up use of a directory or look-up table in file systems G06F17/30067
G	06	F	17	30955	using more than one table in sequence, i.e. systems with three or more layers
G	06	F	17	30958	Graphs; Linked lists G06F17/30961 takes precedence
G	06	F	17	30961	Trees
G	06	F	17	30964	Querying
G	06	F	17	30967	Query formulation
G	06	F	17	3097	using system suggestions
G	06	F	17	30973	using search space presentation or visualization, e.g. category or range presentation and selection
G	06	F	17	30976	Natural language query formulation or dialogue systems
G	06	F	17	30979	Query processing
G	06	F	17	30982	by using parallel associative memories or content-addressable memories
G	06	F	17	30985	by using string matching techniques sequence comparison in bioinformatics G06F19/22; string matching used for packet routing in packet switching systems H04L45/00
G	06	F	17	30988	by searching ordered data, e.g. alpha-numerically ordered data sequence comparison in bioinformatics G06F19/22
G	06	F	17	30991	Presentation or visualization of query results
G	06	F	17	30994	Browsing or visualization
G	06	F	17	30997	Retrieval based on associated metadata
G	06	F	17	60	Administrative, commercial, managerial, supervisory or forecasting purposes electronic cash registers other than digital data processing aspects thereof G07G1/12
G	06	F	17	602	Data processing in buying-selling transactions for trading of electric energy H02J3/008not used
G	06	F	17	604	for exchange business, e.g. quotations or sales transactions of stock or other commodities stock quotation systems H04L12/1804
G	06	F	17	606	Centrally controlled vending systems mechanisms actuated by objects other than coins to free or to actuate vending, hiring or the like apparatus G07F7/00
G	06	F	17	608	Betting on the outcome of an event, e.g. a race, an election; Totalisators
G	06	F	19	10	Bioinformatics, i.e. methods or systems for genetic or protein-related data processing in computational molecular biology in silico methods of screening virtual chemical libraries C40B30/02; in silico or mathematical methods of creating virtual chemical libraries C40B50/02
G	06	F	19	12	for modelling or simulation in systems biology, e.g. probabilistic or dynamic models, gene-regulatory networks, protein interaction networks or metabolic networks

G	06	F	19	14	for phylogeny or evolution, e.g. evolutionarily conserved regions determination or phylogenetic tree construction
G	06	F	19	16	for molecular structure, e.g. structure alignment, structural or functional relations, protein folding, domain topologies, drug targeting using structure data, involving two-dimensional or three-dimensional structures
G	06	F	19	18	for functional genomics or proteomics, e.g. genotype-phenotype associations, linkage disequilibrium, population genetics, binding site identification, mutagenesis, genotyping or genome annotation, protein-protein interactions or protein-nucleic acid interactions
G	06	F	19	20	for hybridisation or gene expression, e.g. microarrays, sequencing by hybridisation, normalisation, profiling, noise correction models, expression ratio estimation, probe design or probe optimisation
G	06	F	19	22	for sequence comparison involving nucleotides or amino acids, e.g. homology search, motif or SNP [Single-Nucleotide Polymorphism] discovery or sequence alignment
G	06	F	19	24	for machine learning, data mining or biostatistics, e.g. pattern finding, knowledge discovery, rule extraction, correlation, clustering or classification
G	06	F	19	26	for data visualisation, e.g. graphics generation, display of maps or networks or other visual representations
G	06	F	19	28	for programming tools or database systems, e.g. ontologies, heterogeneous data integration, data warehousing or computing architectures
G	06	F	19	322	Management of patient personal data, e.g. patient records, conversion of records or privacy aspects
G	06	F	19	323	on a portable record carrier, e.g. CD, smartcard or RFID
G	06	F	19	327	Management of hospital data, e.g. scheduling of medical staff or operation rooms, measuring the quality or efficiency of medical staff
G	06	F	19	3406	Local monitoring or local control of medical devices, e.g. configuration parameters, graphical user interfaces [GUI] or dedicated hardware interfaces
G	06	F	19	3412	Medical equipment management, e.g. updates or maintenance
G	06	F	19	3425	Consulting other medical practitioners, e.g. cooperation, by teleconferencing
G	06	F	19	3431	Calculating a health index for the patient, e.g. for risk assessment
G	06	F	19	3437	Medical simulation or modelling, e.g. simulating the evolution of medical disorders computer-aided design using simulation G06F17/5009; biomedical image modelling G06T17/00
G	06	F	19	3443	Medical data mining, e.g. in previous cases of different patients pattern recognition in general G06K9/62
G	06	F	19	345	Medical expert systems, neural networks or other automated diagnosis computer systems utilising knowledge based models G06N5/00; neural networks per seG06N3/02
G	06	F	19	3487	Medical report generation
G	06	F	19	3493	Computer-assisted epidemiological alert systems, e.g. bioterrorism or flu alerts
G	06	F	19	363	Manual data input, e.g. electronic questionnaires or clinical trials
G	06	F	19	366	Acquisition of data related to laboratory tests, e.g. special identifiers for examination containers investigating biological material G01N33/48

G	06	F	19	70	Chemoinformatics, i.e. data processing methods or systems for the retrieval, analysis, visualisation, or storage of physicochemical or structural data of chemical compounds in silico methods of screening virtual chemical libraries C40B30/02; in silico or mathematical methods of creating virtual chemical libraries C40B50/02; computer-aided design per seG06F17/50; bioinformatics G06F19/10; processing of 2D or 3D images G06T
G	06	F	19	701	for molecular modelling, e.g. calculation and theoretical details of quantum mechanics, molecular mechanics, molecular dynamics, Monte Carlo methods, conformational analysis or the like molecular modelling of nucleic acids or proteins G06F19/16
G	06	F	19	702	for analysis and planning of chemical reactions and syntheses, e.g. synthesis design, reaction prediction, mechanism elucidation
G	06	F	19	703	for computer-assisted identification of chemical compounds or molecular structures, e.g. computer-assisted structure elucidation [CASE] systems
G	06	F	19	704	for prediction of properties of compounds, e.g. calculating and selecting molecular descriptors, details related to the development of SAR/QSAR/QSPR models, ADME/Tox models or PK/PD models
G	06	F	19	705	for database search of chemical structures, e.g. full structure search, substructure search, similarity search, pharmacophore search, 3D structure search information retrieval in general G06F17/30
G	06	F	19	706	for drug design with the emphasis on a therapeutic agent, e.g. ligand-biological target interactions, pharmacophore generation drug targeting using protein structure data G06F19/16; binding site identification G06F19/18
G	06	F	19	707	using machine learning, data mining or chemometrics, e.g. pattern recognition, knowledge discovery, rule extraction, correlation, clustering or classification, chemical name to structure conversion use of machine learning, data mining or biostatistics for processing genetic or protein-related data G06F19/24
G	06	F	19	708	for data visualisation, e.g. molecular structure representations, graphics generation, display of maps or networks or other visual representations data visualisation specially adapted for processing genetic or protein-related data G06F19/26
G	06	F	19	709	for programming tools or database systems, e.g. ontologies, heterogeneous data integration, data warehousing or computing architectures programming tools or database systems specially adapted for processing genetic or protein-related data G06F19/28
G	06	F	21	558	with measures against differential power attack
G	06	F	2212	69	Details of replacement control
G	06	F	8	665	of program code stored in alterable solid state memory, e.g. EEPROM, flash
G	06	F	8	67	while running
G	06	F	8	68	Incremental; Differential
G	06	F	9	4421	Execution paradigms
G	06	F	9	4423	Procedural
G	06	F	9	4425	Executing sub-programmes
G	06	F	9	4426	Formation of sub-programme jump address
G	06	F	9	4428	Object-oriented
G	06	F	9	443	Object-oriented method invocation or resolution

G	06	F	9	4431	Optimising based on receiver type
G	06	F	9	4433	Inheritance
G	06	F	9	4435	Object persistence
G	06	F	9	4436	Data-driven
G	06	F	9	4438	Unification in logic programming
G	06	F	9	444	Finite state machines
G	06	F	9	4443	Execution mechanisms for user interfaces
G	06	F	9	4445	Remote windowing, e.g. X-Window System, desktop virtualisation protocols for telewriting H04L67/38
G	06	F	9	4446	Help systems
G	06	F	9	4448	Multi-language systems; Localisation; Internationalisation
G	06	K	2017	0035	Aspects not covered by other subgroups
G	06	K	2017	0038	Processing documents, e.g. checks, formulars
G	06	K	2017	0041	Personalising cards or checks, issuing personal tickets, passbooks or the like
G	06	K	2017	0045	Tracking objects or persons
G	06	K	2017	0048	Grouping, sorting, transporting, distributing documents or goods
G	06	K	2017	0051	Stock management, inventory systems
G	06	K	2017	0054	for collecting waste
G	06	K	2017	0058	for collecting milk
G	06	K	2017	0061	for processing photo orders
G	06	K	2017	0064	for fraud control purposes
G	06	K	2017	0067	for commercial purposes, e.g. transactions, payments, ordering, games
G	06	K	2017	007	for multiple use or various applications
G	06	K	2017	0074	for use in library or the like systems
G	06	K	2017	0077	for checking, inspecting or history purposes, e.g. histograms
G	06	K	2017	008	for use in word processing or the like systems
G	06	K	2017	0083	Generating labels
G	06	K	2017	0087	for automatic, e.g. process, control purposes
G	06	K	2017	009	for use in medical applications
G	06	K	2017	0093	Information-providing systems
G	06	K	2017	0096	Information-recording systems, e.g. data logging
G	06	N	99	002	Quantum computers, i.e. information processing by using quantum superposition, coherence, decoherence, entanglement, nonlocality, teleportation
G	06	N	99	005	Learning machines, i.e. computer in which a programme is changed according to experience gained by the machine itself during a complete run neural networks G06N3/02; knowledge based models G06N5/00; fuzzy logic systems G06N7/02; adaptive control systems G05B13/00
G	06	T	2207	20136	Edge growingEdge linking
G	06	T	2207	20141	Region-growingRegion mergingConnected component labeling
G	06	T	2207	20144	Foreground-background segmentation
G	06	T	2207	20148	Thresholding
G	06	T	7	0018	Camera calibration, e.g. determining intrinsic or extrinsic parameters
G	06	T	7	002	Stereo camera calibration, e.g. determination of the transformation between left camera coordinate system and right camera coordinate system
G	06	T	7	0022	Determining parameters from multiple pictures depth or shape from stereo images G06T7/0075; depth or shape from multiple images G06T7/0065; stereo camera calibration G06T7/002

					Registration of images, e.g. alignment of images image matching for pattern
G	06	T	7	0024	recognition or image matching in general G06K9/6203
G	06	T	7	0026	using correlation-based methods
G	06	T	7	0028	using feature-based methods
					involving reference images or patches image matching for pattern recognition
G	06	T	7	003	or image matching in general G06K9/6203
					involving models model matching for pattern recognition G06K9/6204,
G	06	T	7	0032	G06K9/6878
					using statistical methods image matching by comparing statistics of regions for
G	06	T	7	0034	pattern recognition G06K9/6212
G	06	T	7	0036	using transform-domain based approaches
G	06	T	7	0038	Registration of image sequences
G	06	T	7	004	Determining position or orientation of objects
G	06	T	7	0042	using feature-based methods
					involving reference images or patches image matching for pattern recognition
G	06	T	7	0044	or image matching in general G06K9/6203
					involving models model matching for pattern recognition G06K9/6204,
G	06	T	7	0046	G06K9/6878
					using statistical methods image matching by comparing statistics of regions for
G	06	T	7	0048	pattern recognition G06K9/6212
G	06	T	7	0051	Depth or shape recovery
G	06	T	7	0053	from shading
G	06	T	7	0055	from specularities
					from laser ranging and structured images, e.g. interferometry image
					acquisition and arrangements for measuring contours or curvatures of an
G	06	T	7	0057	object by projecting a pattern, thereupon G01B11/25
G	06	T	7	0059	from texture
G	06	T	7	0061	from perspective effects, e.g. using vanishing points
G	06	T	7	0063	from line drawings
G	06	T	7	0065	from multiple images
G	06	T	7	0067	from contours
G	06	T	7	0069	from focus
G	06	T	7	0071	from motion
G	06	T	7	0073	from multiple light sources, e.g. photometric stereo
G	06	T	7	0075	from stereo images
G	06	T	7	0077	from three or more stereo images
					Segmentation or edge detection image analysis based on texture or colour
					features G06T7/40; motion-based segmentation G06T7/2006; separation of
					touching or overlapping patterns for pattern recognition G06K9/34; extraction
G	06	T	7	0079	of features or characteristics of the image for pattern recognition G06K9/46
					Region-based segmentation image analysis based on texture or colour
					features G06T7/40; separation of touching or overlapping patterns by cutting
					or merging for pattern recognition G06K9/342; quantising the analogue image
					signal for pattern recognition G06K9/38; extraction of features or
					characteristics of the image related to colour for pattern recognition
G	06	T	7	0081	G06K9/4652
					Edge-based segmentation detecting partial patterns or configurations
G	06	T	7	0083	G06K9/4604
G	06	T	7	0085	Edge detection detecting partial patterns or configurations G06K9/4604

					involving probabilistic approaches, e.g. Markov Random Field [MRF] modeling Markov models or related models or networks embedding Markov models for pattern recognition G06K9/6297; classification techniques based on a parametric, e.g. probabilistic, model G06K9/6277; detecting partial patterns or configurations by analysing connectivity relationship of elements of the pattern
G	06	T	7	0087	G06K9/4638
					involving deformable models, e.g. active contour pattern recognition techniques involving a deformation of the sample or reference pattern or
G	06	T	7	0089	elastic matching G06K9/6206
					involving morphological operators combinations of preprocessing functions
G	06	T	7	0091	using a local operator for pattern recognition G06K9/56
					involving graph-based approaches non-hierarchical partitioning techniques
G	06	T	7	0093	based on graph theory for pattern recognition G06K9/6224
					involving transform domain approaches detecting partial patterns, e.g. edges
G	06	T	7	0095	or contours, using the Hough transform for pattern recognition G06K9/4633
G	06	T	7	0097	involving the use of two or more images
G	06	T	7	2006	Motion-based segmentation
G	06	T	7	2013	using block-matching
G	06	T	7	202	using full search
G	06	T	7	2026	using non-full search, e.g. three step search
G	06	T	7	2033	using feature-based methods, e.g. corners, segments
					involving reference images or patches image matching for pattern recognition
G	06	T	7	204	or image matching in general G06K9/6203
					involving models model matching for pattern recognition G06K9/6204,
G	06	T	7	2046	G06K9/6878
G	06	T	7	2053	involving subtraction of pictures
G	06	T	7	206	using transform domain based approaches, e.g. Fourier
G	06	T	7	2066	using gradient-based methods
G	06	T	7	2073	Motion estimation over a hierarchy of resolutions
G	06	T	7	208	involving a stochastic approach, e.g. Kalman filter
G	06	T	7	2086	Computing motion from a sequence of stereo images
G	06	T	7	2093	Multi-camera tracking
G	06	T	7	401	based on statistical texture description
G	06	T	7	402	using transform-domain based approaches
G	06	T	7	403	using image operators, e.g. filter, edge density, local histograms
G	06	T	7	404	using co-occurrence matrix computation
G	06	T	7	405	using random Fields
G	06	T	7	406	using fractals
G	06	T	7	407	based on structural texture description, i.e. primitives and placement rules
G	06	T	7	408	Color analysis
G	06	T	7	602	Area, perimeter, diameter or volume
G	06	T	7	604	Convexity or concavity
					Center of gravity or moments moments specific for pattern recognition, e.g.
G	06	T	7	606	Zernike moments G06K9/525
G	06	T	7	608	Symmetry
G	07	D	11	0003	Mechanical details
G	07	D	11	0006	Note containers

					Secure note containers, e.g. for transport coin boxes G07F9/06; locking
G	07	D	11	0009	means E05B; safes E05G; currency invalidating means E05G1/14
G	07	D	11	0012	incorporating note handling devices within the containers
G	07	D	11	0015	Remote note containers
G	07	D	11	0018	Inlet or outlet ports
					Handling paper currency, e.g. banknotes handling paper sheets in general
G	07	D	11	0021	B65H
G	07	D	11	0024	Note picking
					Aligning apparatus characterised by positioning means or by means
G	07	D	11	0027	responsive to positioning G07D7/17
G	07	D	11	003	Flattening, e.g. straightening out folds
G	07	D	11	0033	Diverting
G	07	D	11	0036	Electronic and sensing details
G	07	D	11	0039	for detection of transport malfunction, e.g. jams, misfeeds
G	07	D	11	0042	for tamper detection and indication
G	07	D	11	0045	for cassette fill-level sensing
					for checking and indicating machine condition, fault detection registering or
G	07	D	11	0048	indicating the working of machines in general G07C3/00
G	07	D	11	0051	Means for managing operation, e.g. data handling with apparatus
G	07	D	11	0054	for managing stock of banknotes
G	07	D	11	0057	Replenishment
G	07	D	11	006	Relocation of banknotes within apparatus
					for servicing, repairing or coping with irregularities, e.g. power failure,
G	07	D	11	0063	vandalism
G	07	D	11	0066	for tracking or tracing banknotes or cassettes
					for record keeping indicating machine condition G07D11/0048; transaction
G	07	D	11	0069	aspects G07F19/00
G	07	D	11	0072	Contents of apparatus, e.g. number of stored banknotes
G	07	D	11	0075	Audit trail of performed activities
G	07	D	11	0078	for transmitting data, e.g. software updates, parameter settings
G	07	D	11	0081	Device architecture, e.g. modular construction
					Sorting or counting paper currency sorting coins G07D3/00 - counting coins
G	07	D	11	0084	G07D9/00
G	07	D	7	0006	Security markings visible to the naked eye
G	07	D	7	0013	Holograms
G	07	D	7	002	Watermarks
G	07	D	7	0026	Barcodes
G	07	D	7	0033	Checkcodes, e.g. coded number derived from serial number and value
G	07	D	7	0046	Security markings invisible to the naked eye, e.g. "digital watermarks"
G	07	D	7	006	involving markings removed from an original pattern
G	07	D	7	0066	involving markings the properties of which are altered from original properties
G	07	D	7	0073	involving markings displaced slightly from original positions within a pattern
G	07	D	7	008	involving markings of altered colours
G	07	D	7	0086	involving markings which are altered in dimension, e.g. thickened lines
G	07	D	7	0093	Circuits in note
G	07	D	7	122	Spectral properties
G	07	D	7	124	Optical security elements
G	07	D	7	125	Holograms or other interface patterns

G	07	D	7	127	Watermarks
G	07	D	7	166	Folds or doubles
G	07	D	7	168	Position of banknote
					Testing the stiffness or other mechanical properties, e.g. wear or tear
G	07	D	7	18	G07D7/16 takes precedence
G	07	D	7	2025	Pattern matching
G	07	D	7	2058	matching a template
G	07	D	7	2066	matching with an overlay, e.g. by interference
					the actions, in particular the hammers, being mounted above the strings, i.e.
G	10	C	3	225	hammers hitting downwards
G	10	C	5	005	Switching the keyboard from piano playing to playing another instrument
G	10	K	11	1782	using single input
G	10	K	11	1784	using multiple inputs; single output
G	10	K	11	1786	using multiple inputs; multiple outputs
G	10	K	11	1788	Structural details
G	21	C	2001	088	Inherently safe boiling water reactors
G	21	C	2003	045	Pellets
G	21	C	2003	047	Pellet-clad interaction
G	21	C	2003	048	Shape of pellets
G	21	C	2003	3225	by waterrods
G	21	C	2003	3262	Enrichment distribution in zones
G	21	C	2003	3265	Radial distribution
G	21	C	2003	3267	Axial distribution
G	21	C	2003	3432	Grids designed to influence the coolant, i.e. coolant mixing function
G	21	C	2013	063	Seals for closures or for rotatable closures
G	21	C	2015	185	using energy stored in reactor system
G	21	C	2015	187	using energy from the electric grid
G	21	D	2003	002	Core design; Core simulations
G	21	D	2003	004	Fuel shuffle simulations
G	21	D	2003	005	Thermo-hydraulic simulations
G	21	D	2003	007	Expert systems
					Protection of plant or environment from mutual hazards : means for monitoring
G	21	D	2010	00	the effects of plant or environment upon each other
G	21	F	2005	125	Means to monitor or detect the leak-tightness of the closure
					INDEXING SCHEME RELATING TO NUCLEAR REACTORS, POWER PLANTS AND EXPLOSIVES, TO PROTECTION AGAINST RADIATION, TO THE TREATMENT OF RADIOACTIVELY CONTAMINATED MATERIAL, TO APPLICATIONS OF RADIOACTIVE SOURCES AND TO THE UTILISATION
G	21	Y	-	-	OF COSMIC RADIATION
G	21	Y	2002	00	PROBLEM
G	21	Y	2002	10	Shortcomings in materials
G	21	Y	2002	101	Wear
G	21	Y	2002	102	Embrittlement
G	21	Y	2002	103	Corrosion
G	21	Y	2002	104	Inadequate performance, deformation, cracks, rupture
G	21	Y	2002	20	Operational shortcomings
G	21	Y	2002	201	Inadequate efficiency
G	21	Y	2002	202	Slowness of a process or function
G	21	Y	2002	203	Lack of manoeuvrability
G	21	Y	2002	204	Imprecision (measuring, positioning, guiding)

G	21	Y	2002	205	Lack of Automation
G	21	Y	2002	206	Insufficient reliability (durability)
G	21	Y	2002	207	Abnormal conditions
G	21	Y	2002	208	Risk of human error
G	21	Y	2002	30	Design and construction shortcomings
G	21	Y	2002	301	Heavy, bulky, cumbersome constructions, shape
G	21	Y	2002	302	Fabricating, assembling, replacing, dismantling
G	21	Y	2002	303	Risk of damage
G	21	Y	2002	304	Lack of versatility, compatibility
G	21	Y	2002	305	Inadequate transportation
G	21	Y	2002	306	Non-compliance with regulations
G	21	Y	2002	40	Maintenance shortcomings (Servicing)
G	21	Y	2002	401	Inconvenient access
G	21	Y	2002	402	Complicated assembling, disassembling, replacing, dismantling
G	21	Y	2002	50	Safety, security and safeguard shortcomings
G	21	Y	2002	501	Radiation exposure
G	21	Y	2002	502	Lack of monitoring
G	21	Y	2002	60	Disposal shortcomings
G	21	Y	2002	601	Excess of irradiated inventory
G	21	Y	2004	00	SOLUTION
G	21	Y	2004	10	Compositions
G	21	Y	2004	101	Inherent characteristics
G	21	Y	2004	20	Obtaining improvement by treatment
G	21	Y	2004	201	Heat treatment
G	21	Y	2004	202	Cold working
G	21	Y	2004	30	Improving a design
G	21	Y	2004	301	Joints, fixing devices
G	21	Y	2004	302	Fluid mechanics, thermodynamics
G	21	Y	2004	303	Protection cover, catching devices
G	21	Y	2004	304	Redundancy, adding material or parts
G	21	Y	2004	305	Reducing size, material or number of parts
G	21	Y	2004	40	Improving a procedure
G	21	Y	2004	401	Automation
G	21	Y	2004	402	Inherent action
G	21	Y	2004	403	Tuning, adjustment
G	21	Y	2004	50	Repair, replacement
G	21	Y	2004	501	Improving a tool
G	21	Y	2004	502	Remote operation
G	21	Y	2004	503	in factory
G	21	Y	2004	504	on site
G	21	Y	2004	60	Reusing items, recycling
G	21	Y	2004	601	Discarding, Repository
H	01	R	13	65802	with resilient grounding means
H	01	R	13	65805	using dielectric material made conductive, e.g. plastics material coated with metal
H	01	R	13	65807	and comprising shielding between neighboring signal paths
H	01	R	23	00	Two-part coupling devices having four or more poles, with or without additional protective earth connection; Separate parts thereof

					comprising means for reducing cross-talk, e.g. special layout of conductors between input and output pins by shielding of neighboring signal paths H01R13/65807, H01R23/688; twisted pair cables H01B11/02; in line transmission systems H04B3/32; ground circuit layout on printed circuit boards
H	01	R	23	005	H05K9/0039
					having parallely-arranged contacts for sliding engagement with their counter-contacts
H	01	R	23	02	
H	01	R	23	025	sliding engagement on one side only, e.g. modular jack type
					wherein one coupling part is secured to wire or cable and the other part is
H	01	R	23	10	secured to apparatus or structure
H	01	R	23	26	having concentrically or coaxially arranged contacts
					Hermaphroditic coupling devices hermaphroditic contact members
H	01	R	23	27	H01R13/28
H	01	R	23	66	for connection to or between flat or ribbon cables
H	01	R	23	661	Details, e.g. strain relieving means, retainers
H	01	R	23	662	Earth or shield arrangements in general H01R13/648
					Coupling parts carrying pins, blades or analogous contacts H01R23/667,
H	01	R	23	664	H01R23/668 take precedence
					Coupling parts carrying sockets, clips or analogous countercontacts
H	01	R	23	665	H01R23/667, H01R23/668 take precedence
H	01	R	23	667	for connection of flat or ribbon cables between each other, e.g. adaptors
H	01	R	23	668	for connection of flat or ribbon cables to a printed circuit board
					for connection to or between printed circuits; Non printed connecting
H	01	R	23	68	arrangements of printed circuit boards (PCB's) H01R23/668 takes precedence
					for connection between PCB and component, e.g. display plugging
H	01	R	23	6806	components in general H05K7/10
H	01	R	23	6813	with low or zero insertion force
H	01	R	23	682	and with pivoting of PCB after insertion
H	01	R	23	6826	Contact pressure producing means activated after insertion of PCB
					acting linearly H01R23/6846, H01R23/6853 and H01R23/686 take
H	01	R	23	6833	precedence
					acting by rotation or by pivoting H01R23/6846, H01R23/6853 and
H	01	R	23	684	H01R23/686 take precedence
H	01	R	23	6846	acting automatically by insertion of PCB
H	01	R	23	6853	fluid activated
H	01	R	23	686	activated by shape memory material
H	01	R	23	6866	Arrangements for power supply bus-bars
H	01	R	23	6873	adapted for high frequency
H	01	R	23	688	and comprising shielding between neighboring signal paths
H	01	R	23	6886	Coupling parts supported only by cooperation with PCB
					Connectors for contacting one or more arrays of pins or sockets mounted on a
H	01	R	23	6893	PCB counterparts presenting such arrays H01R23/7073
					co-operating with the edge of the printed circuit or with a counterpart provided on the edge of the printed circuit H01R23/6813 takes precedence;
H	01	R	23	70	Counterparts therefor; Special features of the edge of the board
					Guiding, mounting, polarizing or locking means; Extractors for printed circuit
H	01	R	23	7005	boards H05K
H	01	R	23	701	locking or fixing a connector to a PCB

H	01	R	23	7015	Snap means
H	01	R	23	7021	integral with the coupling device
H	01	R	23	7026	not integral with the coupling device
H	01	R	23	7031	involving non-elastic deformation, e.g. plastic deformation, melting H01R23/7057 takes precedence
H	01	R	23	7036	Gluing or taping
H	01	R	23	7042	with a fastener through a screw hole in the coupling device
H	01	R	23	7047	characterised by the locating members
H	01	R	23	7052	characterised by the movement, e.g. pivoting, camming or translating parallel to the PCB
H	01	R	23	7057	Press fitting
H	01	R	23	7063	Soldering or welding
H	01	R	23	7068	cooperating directly with the edge of the PCB
H	01	R	23	7073	Counterparts, e.g. containing pins forming a right angle, mounted on the edge of the PCB
H	01	R	23	7078	Counterparts presenting a contact carrying strip, e.g. edge-like strip
H	01	R	23	7084	Counterparts presenting arrays of sockets
H	01	R	23	7089	Contact members without an insulating housing provided on the edge of the PCB
H	01	R	23	7094	with switch operated by engagement of PCB
H	01	R	23	72	co-operating with the surface of the printed circuit or with a counterpart provided on the surface of the printed circuit H01R23/6813, H01R23/70 take precedence
H	01	R	23	722	with contacts abutting directly the printed circuit; Button contacts therefor provided on the printed circuit
H	01	R	23	725	Counterparts provided on the PCB
H	01	R	23	727	Contact members provided on the PCB without an insulating housing contacts for abutting H01R23/722
H	01	R	9	07	for flat or ribbon cables or flexible printed circuits
H	01	R	9	0707	with exposed conductor portions for connection
H	01	R	9	0714	to another flat or ribbon cable or flexible printed circuit, e.g. by pressing contact areas against each other
H	01	R	9	0721	by means of interconnecting elements
H	01	R	9	0728	to a cable of another type, e.g. round section cable
H	01	R	9	0735	to conductive elements on a rigid planar substrate, e.g. to a printed circuit board
H	01	R	9	0742	to contact elements
H	01	R	9	075	with contacts penetrating cable insulation for making contact with conductors, e.g. needle points in general H01R4/24
H	01	R	9	0757	with contacts having at least a slotted plate for penetration of cable insulation, e.g. insulation displacement contacts for round conductor flat cables in general H01R4/2416
H	01	R	9	0764	to another flat or ribbon cable or flexible printed circuit, e.g. tapping connection
H	01	R	9	0771	with permanent deformation of contacts, e.g. crimping contacts for rectangular conductor flat cables in general H01R4/2495
H	01	R	9	0778	for shielded flat cable
H	01	R	9	0785	connection of the shield to an additional grounding conductor
H	01	R	9	0792	each conductor being individually surrounded by shield, e.g. multiple coaxial cables in flat structure

					Connectors for printed circuits printed connections to or between printed circuits H05K; Terminals, terminal strips, terminal blocks or bases for printed
H	01	R	9	09	circuits
					terminals for or connections to a printed circuit board H01R9/0515 takes
H	01	R	9	091	precedence
					Terminals having a press fit or a compliant portion and a shank passing
H	01	R	9	092	through a hole in the printed circuit board
H	01	R	9	093	Terminal blocks providing connections to wires or cables
H	01	R	9	095	Connections on the surface of the printed circuit
H	01	R	9	096	Connections between two or more printed circuits
H	01	R	9	097	by an interconnection through aligned holes in the boards or multilayer board
					the printed circuits being on the same board with plated through holes
H	01	R	9	098	H05K3/42
H	04	B	2201	71392	Asymmetric systems
H	04	L	12	24	Arrangements for maintenance or administration
H	04	L	12	2401	involving integration or standardization
					using standardized network management architectures, e.g. TMN [Telecommunication Management network], UNMA [Unified Network
H	04	L	12	2402	Management Architecture]
					using standardized network management protocols, e.g. SNMP [Simple Network Management Protocol], CMIP [Common Management Interface
H	04	L	12	2403	Protocol]
H	04	L	12	2404	Multivendor or multistandard integration
H	04	L	12	2405	Mapping or translation of multiple network management protocols
					using object oriented techniques, e.g. CORBA [Common Object Request
H	04	L	12	2406	Broker Architecture] for representation of network management data
					using relational databases for representation of network management data,
H	04	L	12	2407	e.g. managing via SQL [Structured Query Language]
					using Internet technology, e.g. a standard Web Browser at the management
H	04	L	12	2408	workstation
H	04	L	12	2409	Architectural aspects of network management arrangements
					Arrangements involving multiple distributed management centers
H	04	L	12	241	cooperatively managing the network
H	04	L	12	2411	Arrangements involving a hierarchical management structure
H	04	L	12	2412	Aspects of network management Agents
H	04	L	12	2413	Arrangements involving CNM [Customer Network Management]
H	04	L	12	2414	involving network analysis
					using statistical methods, e.g. distribution tests, or establishing statistical
H	04	L	12	2415	profiles, or calculating probabilities
					for automatically determining the actual topology of a network Topology
H	04	L	12	2416	discovery in routers H04L45/02
					Service management, i.e. managing value added network services and related parameters, e.g. SLA [Service Level Agreements], responsetimes,
H	04	L	12	2417	performance, throughput
H	04	L	12	2418	involving monitoring of all traffic over a specific network link
H	04	L	12	2419	involving management of faults or events or alarms
H	04	L	12	242	Alarm or event filtering, e.g. for reduction of information
H	04	L	12	2421	Alarm and event correlation
H	04	L	12	2422	Automatic restoration of network faults

					involving Artificial Intelligence algorithms, e.g. expert systems, rule based
H	04	L	12	2423	systems, genetic algorithms
					Configuration management of network or network elements management of devices network applications for proprietary or special purpose network environments H04L29/08567; automatic configuration in wireless networks
H	04	L	12	2424	H04W24/02
H	04	L	12	2425	Configuration setting of network or network elements
H	04	L	12	2426	for initial configuration or provisioning
H	04	L	12	2427	Plug-and-play configuration
H	04	L	12	2428	Changing of configuration
H	04	L	12	2429	due to adaptation, e.g. in response to network events
					due to updating or upgrading of network functionality, e.g. firmware topology
H	04	L	12	243	update or discovery for routing purposes H04L45/02
H	04	L	12	2431	Configuration optimization
H	04	L	12	2432	for network cost reduction
H	04	L	12	2433	for network speed increase
H	04	L	12	2434	to reduce network energy consumption
H	04	L	12	2435	to enhance reliability, e.g. reduce downtime
H	04	L	12	2436	Configuration by copying
H	04	L	12	2437	based on generic templates
H	04	L	12	2438	based on copy from other elements
					Bandwidth or capacity management, i.e. automatically increasing or
H	04	L	12	2439	decreasing capacities, e.g. bandwidth on demand
					Assignment of logical groupings to network elements; Policy based network
H	04	L	12	244	management or configuration
H	04	L	12	2441	Keeping track of network configuration
H	04	L	12	2442	by actively collecting or retrieving configuration information
H	04	L	12	2443	by archiving or backing up configuration information
H	04	L	12	2444	by keeping history of different configuration generations or versions
H	04	L	12	2445	by rolling back to previous configuration versions
H	04	L	12	2446	Checking configuration
H	04	L	12	2447	by validating configuration within one network element
H	04	L	12	2448	by checking configuration conflicts with other network elements
H	04	L	12	2449	Aspects of the degree of configuration automation
H	04	L	12	2451	Manual configuration through operator
H	04	L	12	2452	Semiautomatic configuration, e.g. proposals from system
H	04	L	12	2453	Fully automatic configuration
H	04	L	12	2454	Techniques to speed-up the configuration process
H	04	L	12	2455	Hardware and software tools for network management
H	04	L	12	2456	for network design, e.g. with integrated simulation and design testing
H	04	L	12	2457	Network management software packages
H	04	L	12	2458	using GUI [Graphical User Interface]
H	04	L	12	2459	using dedicated network management hardware
H	04	L	12	246	using dedicated tools for LAN [Local Area Network] management
					Security in network management, e.g. restricting network management access
H	04	L	12	2461	protocols or architecture for network security H04L29/06551
					Decision processes by autonomous network management units using voting
H	04	L	12	2462	and bidding
H	04	L	12	2463	Specific management aspects for broadband networks

H	04	L	12	2464	Network service management, ensuring proper service fulfilment according to an agreement or contract between two parties, e.g. between an IT-provider and a customer
H	04	L	12	2465	Managing SLA [Service Level Agreement] or interaction between SLA and QoS [Quality of Service]
H	04	L	12	2466	Defining or negotiating SLA contracts, guarantees or penalties SLA negotiation in wireless networks H04W28/24
H	04	L	12	2467	Measuring SLA quality parameters, e.g. against possible contract or guarantee violations Monitoring performance metrics on a simple network level H04L12/2634
H	04	L	12	2468	determining service availability
H	04	L	12	2469	based on actual status of service availability, e.g. which services are available at this point in time
H	04	L	12	247	based statistics of service availability, e.g. in percentage or over a given time
H	04	L	12	2471	determining service performance, i.e. performance on service level, e.g. response time or MTBF [Mean Time Between Failure]
H	04	L	12	2472	Ensuring SLA flow or congestion control at network level H04L12/569
H	04	L	12	2473	by giving priorities, e.g. assigning classes of service
H	04	L	12	2474	by proactively reacting to service quality change (e.g. degradation or upgrade) by reconfiguration mere restoration of network faults H04L12/2422
H	04	L	12	2475	Service quality level based billing, e.g. dependent on measured service level customer is charged more or less general charging or billing for transport of data packets H04L12/14
H	04	L	12	2476	Generating service level reports
H	04	L	12	2477	Measuring contribution of individual network components to actual service level alarm or event correlation H04L12/2421
H	04	L	12	2478	Testing of service level quality
H	04	L	12	2479	Service implementation
H	04	L	12	248	Making service definitions prior to deployment
H	04	L	12	2481	Automatic or semi-automatic definitions, e.g. definition templates
H	04	L	12	2482	Service on demand, i.e. services are defined and provided in real time as requested by the user
H	04	L	12	2483	Automatic provisioning of the service triggered by the service manager, e.g. concrete service implementation by automatic configuration of network components for initializing configuration, i.e. provisioning of network or devices H04L12/2425
H	04	L	12	2484	Service discovery by the Service Manager automatically determining the actual topology of a network H04L12/2416; topology discovery in routers H04L45/02; arrangements for service discovery, e.g. Service Location Protocol [SLP] H04L29/08648
H	04	L	12	2485	Customer care
H	04	L	12	2486	Customer Relationship Management for arrangements involving Customer Network Management, i.e. giving the customer access to network management functions H04L12/2413
H	04	L	12	2487	Customer-centric QoS [Quality of Service Measurement]
H	04	L	12	2488	Filtering out customers affected by service problems
H	04	L	12	2489	Handling of Trouble Tickets

H	04	L	12	249	Managing simple transport services, i.e. providing only network infrastructure
H	04	L	12	2491	based on type of value added network service under agreement
H	04	L	12	2492	wherein the managed service relates to web hosting web hosting as such H04L29/0809, web-browsers G06F17/30861, video-hosting H04N21/2743
H	04	L	12	2493	wherein the managed service relates to voice services protocols for real-time multimedia communications H04L29/06176; management of telephonic communication services H04M3/22; management of VoIP services H04M7/0081
H	04	L	12	2494	wherein the managed service relates to audio / video / TV protocols for real-time multimedia communications H04L29/06176; interactive television or VoD H04N21/00
H	04	L	12	2495	wherein the managed service relates to messaging messaging, such as e-mail in packet-switching networks H04L12/58
H	04	L	12	2496	wherein the managed service relates to chat services conducting a computer conference H04L12/1822; instant messaging H04L12/581
H	04	L	12	2497	wherein the managed service relates to access to distributed or central networked applications
H	04	L	12	2498	wherein the managed service relates to media content delivery over network
H	04	L	12	26	Monitoring arrangementsTesting arrangements
H	04	L	12	2602	Monitoring arrangements
H	04	L	12	2605	involving a reduction of monitoring data
H	04	L	12	2607	using sampling of monitoring data, i.e. storing only a selection of packets
H	04	L	12	261	using adaptive sampling
H	04	L	12	2613	using flow Flow generation
H	04	L	12	2615	using filtering alarm or event filtering H04L12/242
H	04	L	12	2618	processing of captured monitoring data
H	04	L	12	2621	for graphical visualization of monitoring data graphical user interfaces H04L12/2458
H	04	L	12	2623	Report generation
H	04	L	12	2626	for traffic related reporting
H	04	L	12	2628	for device related reporting reporting of sensed information of home appliances H04L12/2803
H	04	L	12	2631	for time frame related reporting
H	04	L	12	2634	Monitoring using or based on specific metrics
H	04	L	12	2636	based on availability
H	04	L	12	2639	based on connectivity
H	04	L	12	2642	based on functioning monitoring the activity of the application user H04L29/08675; monitoring appliance functionality of home appliances H04L12/2803
H	04	L	12	2644	using errors management of events, faults or alarms H04L12/2419
H	04	L	12	2647	using packet loss
H	04	L	12	2649	using one way packet loss
H	04	L	12	2652	using round trip packet loss
H	04	L	12	2655	based on transmission error
H	04	L	12	2657	based on delays
H	04	L	12	266	based on one way delays
H	04	L	12	2663	based on round trip delays
H	04	L	12	2665	based on Jitter

H	04	L	12	2668	based on network utilization
H	04	L	12	2671	based on utilization of link capacity
H	04	L	12	2673	based on throughput
H	04	L	12	2676	based on packet rate
H	04	L	12	2678	using active monitoring, e.g. heartbeat protocols, polling, ping, trace-route
H	04	L	12	2681	with adaptive polling, i.e. dynamically adapting the polling rate
H	04	L	12	2684	by adding timestamps to packets
H	04	L	12	2686	using dedicated network monitoring probes
H	04	L	12	2689	using software, i.e. software packages
H	04	L	12	2692	using threshold monitoring
H	04	L	12	2694	using protocol analyzers
H	04	L	12	2697	Testing equipment; Routine testing
H	04	L	12	5689	Routing of packets
H	04	L	12	569	Flow control
H	04	L	12	5693	Queue scheduling in packet switching networks
H	04	L	12	5694	Queuing arrangements
H	04	L	12	5695	Admission control; Resource allocation
H	04	L	12	5696	Packet switches, e.g. Layer 2 switches, Layer 3 switches, Multilayer switches
H	04	L	12	58	Message switching systems, e.g. electronic mail systems
H	04	L	12	5805	with automatic reactions or user delegation, e.g. automatic replies or chatbot
H	04	L	12	581	Real time or near real time messaging, e.g. instant messaging [IM]
H	04	L	12	5815	use or manipulation of presence information in messaging presence management H04L29/08684
H	04	L	12	582	interacting with other applications or services
H	04	L	12	5825	Message adaptation based on network or terminal capabilities
H	04	L	12	583	with adaptation as to content
H	04	L	12	5835	with adaptation as to format
H	04	L	12	584	messages including annexed information, e.g. attachments
H	04	L	12	5845	messages including multimedia information protocols for multimedia communication H04L29/06176; voice messaging in telephonic communication using automatic or semi-automatic exchanges with non-audio components H04M3/5307
H	04	L	12	585	with filtering and selective blocking capabilities
H	04	L	12	5855	with selective forwarding
H	04	L	12	586	including conversation history, e.g. threads
H	04	L	12	5865	messaging using geographical location information protocols for adapting network applications to user terminal location H04L29/08657; services specially adapted for wireless communication networks making use of the location of users or terminals H04W4/02
H	04	L	12	587	with notification on incoming messages
H	04	L	12	5875	with reliability check, e.g. acknowledgments, fault reporting
H	04	L	12	588	messaging within social networks
H	04	L	12	5885	with provisions for tracking the progress of a message
H	04	L	12	589	unified messaging, e.g. interactions between instant messaging [IM], e-mail or other types of messages such as Converged IP Messaging [CPM]
H	04	L	12	5895	in combination with wireless systems messaging in wireless communication networks H04W4/12
H	04	L	12	60	Manual relay systems, e.g. push-button switching

H	04	L	12	62	with perforated tape storage
H	04	L	2012	5697	Indexing scheme relating to flow control in packet switching networks
H	04	L	2012	5698	Indexing scheme relating to packet switching systems
H	04	L	9	0606	including means for manipulating block length H04L9/0687 takes precedence
H	04	L	9	0612	Countermeasures against differential power analysis
H	04	L	9	0675	including means for processing multiple rounds
H	04	L	9	0681	specifically for Rijndael
H	04	L	9	0687	with splitting of the data block into left and right halves, e.g. Feistel structures
H	04	L	9	0693	including variable substitution, permutation, order or number of rounds, controlled by a key and/or the input data
H	04	L	9	0802	using a key distribution center, a trusted party or a key server
H	04	L	9	0805	involving a conference key or a group key
H	04	L	9	0808	using a control vector
H	04	L	9	0811	using Diffie-Hellman key agreement
H	04	L	9	0813	with user authentication or key authentication
H	04	L	9	0883	using quantum cryptography
H	04	L	9	0886	using key recovery or key escrow
H	04	L	9	0888	using secret sharing
H	04	L	9	18	Encryption by serially and continuously modifying data stream elements, e.g. stream cipher systems
H	04	L	9	20	Pseudorandom key sequence combined element-for-element with data sequence not used; seeH04L9/18
H	04	L	9	22	with particular pseudorandom sequence generator
H	04	L	9	24	sequence produced by more than one generator not used; seeH04L9/22
H	04	L	9	26	producing a non-linear pseudorandom sequence
H	04	L	9	28	using particular encryption algorithm
H	04	L	9	3046	based on factoring a large integer, e.g. Rivest-Shamir-Adleman [RSA]
H	04	L	9	3053	based on a modular knapsack
H	04	L	9	306	based on discrete logarithm, e.g. ElGamal
H	04	L	9	308	based on polynomial equations
H	04	L	9	3086	based on probabilistic schemes
H	04	L	9	3202	involving a third party or a trusted authority
H	04	L	9	3205	using a non-public key algorithm
H	04	L	9	3207	using zero-knowledge proof
H	04	L	9	3223	using hash functions
H	04	L	9	3244	for message authentication H04L9/3281 takes precedence
H	04	L	9	326	involving the concurrent use of a plurality of channels of different nature
H	04	L	9	3276	involving splitting up or repeating the challenge and/or response
H	04	L	9	3281	using electronic signatures
H	04	L	9	3284	using blind signatures
H	04	L	9	3286	involving a plurality or a group of signers
H	04	L	9	3289	with message recovery
H	04	L	9	3292	with partial message recovery
H	04	L	9	3294	using time stamps or public key certificates
H	04	N	1	40018	Halftoning, i.e. converting the picture signal of a continuous-tone original into a corresponding signal showing only two levels
H	04	N	11	002	High definition systems
H	04	N	11	004	involving two-channel transmission

H	04	N	11	006	involving bandwidth reduction, e.g. subsampling
H	04	N	11	008	with transmission of the extra information by means of quadrature modulation
					Stereoscopic image signal coding, multiplexing, processing, recording or transmission television signal bandwidth reduction H04N19/00; image coding for general purpose image data processing G06T9/00; transformation of the video signal for recording, including multiplexing of another television signal H04N5/9205; for colour signals, H04N9/8227; selective content distribution, e.g. interactive television, VOD H04N21/00; assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, remultiplexing of multiplex streams, insertion of stuffing bits into the multiplex stream, assembling of a packetized elementary stream H04N21/236; disassembling of a multiplex stream, e.g. demultiplexing audio and video streams or extraction of additional data from a video stream, remultiplexing of multiplex streams, extraction or processing of service information at client side, disassembling of packetized elementary stream
H	04	N	13	0003	H04N21/434
H	04	N	13	0007	Processing stereoscopic image signals H04N19/597, H04N13/004 take precedence; image processing as such G06T
H	04	N	13	0011	Transformation of stereoscopic image signals corresponding to virtual viewpoints, e.g. spatial image interpolation
H	04	N	13	0014	the virtual viewpoint location being selected by the observer, e.g. observer tracking with look around effect H04N13/0278 takes precedence
H	04	N	13	0018	Improving the 3D impression of a stereoscopic image by modifying the image content, e.g. with filtering or addition of monoscopic depth cues
H	04	N	13	0022	Aspects relating to depth or disparity adjustment
H	04	N	13	0025	Equalizing the characteristics of different image components in stereoscopic images, e.g. average brightness or colour balance
H	04	N	13	0029	Format conversion of stereoscopic images, e.g. frame-rate or size standards conversion per seH04N7/01; reformatting operations at client side of video signals for household redistribution, storage or real-time display H04N21/4402; reformatting operations at server side of video signals for distribution or compliance with end-user requests or end-user device requirements H04N21/2343
H	04	N	13	0033	Aspects relating to flicker and/or eyestrain reduction
H	04	N	13	0037	Colour aspects processing of colour signals per seH04N9/64
H	04	N	13	004	Mixing stereoscopic image signals
H	04	N	13	0044	Switching stereoscopic image signals

H	04	N	13	0048	Encoding, multiplexing or demultiplexing different image signal components in stereoscopic image signals H04N19/597 takes precedence; assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, remultiplexing of multiplex streams, insertion of stuffing bits into the multiplex stream, assembling of a packetized elementary stream H04N21/236; disassembling of a multiplex stream, e.g. demultiplexing audio and video streams or extraction of additional data from a video stream, remultiplexing of multiplex streams, extraction or processing of service information at client side, disassembling of packetized elementary stream H04N21/434; demultiplexing of several video streams H04N21/4347
H	04	N	13	0051	Synchronisation or controlling aspects synchronization processes at server side, e.g. processing of program clock references H04N21/242; content synchronization processes at client side H04N21/4302; control signals issued by server directed to the network components or client H04N21/633; control signals issued by the network directed to the server or the client H04N21/64746; control signals issued by the client directed to the server or network components H04N21/637; transmission of management data between client and server H04N21/65
H	04	N	13	0055	Recording or reproducing stereoscopic image signals
H	04	N	13	0059	Transmission of stereoscopic image signals selective content distribution, e.g. interactive television, VOD H04N21/00; assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, remultiplexing of multiplex streams, insertion of stuffing bits into the multiplex stream, assembling of a packetized elementary stream H04N21/236; disassembling of a multiplex stream, e.g. demultiplexing audio and video streams or extraction of additional data from a video stream, remultiplexing of multiplex streams, extraction or processing of service information at client side, disassembling of packetized elementary stream H04N21/434; interfacing the downstream path of the transmission network for selective content distribution at server side H04N21/238; interfacing the downstream path of the transmission network originating from a server for selective content distribution at client side H04N21/438
H	04	N	13	0062	the image signal comprising non-image signal components, e.g. metadata, headers, format information or subtitles multiplexing of additional data and video streams H04N21/23614; demultiplexing of additional data and video streams H04N21/4348
H	04	N	13	0066	metadata generation or processing, within selective content distribution, of descriptive data, e.g. content descriptors H04N21/84
H	04	N	13	007	subtitles or other OSD information, e.g. menu data services within selective content distribution, e.g. news ticker H04N21/488; data services for displaying subtitles H04N21/4884
H	04	N	13	02	Picture signal generators
H	04	N	13	0203	using a stereoscopic image camera endoscopes with stereoscopic vision A61B1/00193; stereoscopic photography G03B35/00
H	04	N	13	0207	involving a single 2D image pickup sensor
H	04	N	13	021	using temporal multiplexing, i.e. alternatively capturing several geometrical viewpoints separated in time H04N13/0221 takes precedence

					using spectral multiplexing, i.e. simultaneously capturing several geometrical
H	04	N	13	0214	viewpoints separated by different spectral characteristics
					using spatial multiplexing, i.e. simultaneously capturing several geometrical
H	04	N	13	0217	viewpoints on different parts of the image pickup sensor
H	04	N	13	0221	using the relative movement between camera and object
H	04	N	13	0225	having a parallax barrier
H	04	N	13	0228	having a lenticular screen H04N13/0232 takes precedence
H	04	N	13	0232	having a fly-eye lenticular screen
H	04	N	13	0235	having a varifocal lens or mirror
H	04	N	13	0239	having two 2D image pickup sensors representing the interocular distance
H	04	N	13	0242	having more than two 2D image pickup sensors
					Calibration aspects relating to the control of a stereoscopic camera processing of captured images to determine and compensate stereo camera
H	04	N	13	0246	misalignment, e.g. stereo camera calibration G06T7/85
					having several image pickup sensors with different characteristics other than location or field of view, e.g. different resolution, colour pickup characteristic or additional depth information or, where the image signals of one image pickup sensor are used to control the characteristics of at least one other image
H	04	N	13	025	pickup sensor
					in combination with an electromagnetic radiation source for illuminating the
H	04	N	13	0253	subject
H	04	N	13	0257	Colour aspects processing of color signals per seH04N9/64
					with monoscopic to stereoscopic image conversion H04N13/0221 takes
H	04	N	13	026	precedence
H	04	N	13	0264	using the relative movement of objects in two video frames or fields
H	04	N	13	0267	by scanning a film
					wherein the generated image signal comprises a depth map or a disparity
H	04	N	13	0271	map depth map generation as such G06T7/593
H	04	N	13	0275	from a 3D object model, e.g. computer generated stereoscopic image signals
					the virtual viewpoint location being selected by the observer, e.g. observer
H	04	N	13	0278	tracking
					for generating stereoscopic image signals corresponding to more than two
H	04	N	13	0282	geometrical viewpoints, e.g. multiview systems
H	04	N	13	0285	having a monoscopic mode and a separate stereoscopic mode
H	04	N	13	0289	details relating to the switching between said modes
					generating mixed monoscopic/stereoscopic images, e.g. a stereoscopic image
H	04	N	13	0292	overlay window in a monoscopic image background
					Synchronisation or controlling aspects synchronization processes at server side, e.g. processing of program clock references H04N21/242; content
H	04	N	13	0296	synchronization processes at client side H04N21/4302
					Picture reproducers optical systems for producing stereoscopic or other three
H	04	N	13	04	dimensional effects G02B27/22
					using an autostereoscopic display, i.e. viewing by the user without the aid of
H	04	N	13	0402	special glasses
H	04	N	13	0404	using a lenticular screen H04N13/0406 takes precedence
H	04	N	13	0406	using a fly-eye lenticular screen
H	04	N	13	0409	using a parallax barrier, e.g. spatial light modulator
					the parallax barrier being placed behind the spatial light modulator, e.g.
H	04	N	13	0411	between backlight and SLM

H	04	N	13	0413	the parallax barrier being time-variant
H	04	N	13	0415	with slanted parallax optics
H	04	N	13	0418	using an array of controllable light sources or a moving aperture or light source
H	04	N	13	042	using a varifocal lens or mirror
H	04	N	13	0422	Colour aspects processing of colour signals per seH04N9/64
H	04	N	13	0425	Calibration aspects
H	04	N	13	0427	using a digital micromirror device [DMD]
H	04	N	13	0429	for viewing by the user with the aid of special glasses or head mounted displays [HMD], i.e. stereoscopic displaying spectacles or goggles insofar as they have the same features as spectacles G02C
H	04	N	13	0431	with spectral multiplexing, i.e. simultaneously displaying left and right images separated using glasses with different spectral characteristics, e.g. anaglyph method or Pulfrich method
H	04	N	13	0434	with polarisation multiplexing, i.e. simultaneously displaying left and right images separated using glasses with different polarising characteristics
H	04	N	13	0436	with spatial multiplexing, i.e. simultaneously displaying left and right images on different parts of the display screen and using glasses to optically recombine the stereoscopic image, e.g. with prisms or mirrors H04N13/0434 takes precedence
H	04	N	13	0438	with temporal multiplexing, i.e. alternatively displaying left and right images separated in time and using glasses to alternatively block the right and left eye
H	04	N	13	044	with head mounted left-right displays optical head mounted displays G02B27/017
H	04	N	13	0443	using a half transparent mirror or prism
H	04	N	13	0445	for displaying more than two geometrical viewpoints without observer tracking, i.e. multiview displays
H	04	N	13	0447	simultaneously
H	04	N	13	045	sequentially
H	04	N	13	0452	having a monoscopic mode and a separate stereoscopic mode
H	04	N	13	0454	details of mode switching
H	04	N	13	0456	generating mixed monoscopic or stereoscopic images, e.g. a stereoscopic image overlay window on a monoscopic image background
H	04	N	13	0459	using an image projection screen H04N13/0493, H04N13/0495 take precedence; projection devices per seH04N9/31
H	04	N	13	0468	using observer tracking computer input or output arrangements in interaction with the human body G06F3/011
H	04	N	13	047	for several observers
H	04	N	13	0472	for tracking with variable interocular distance or rotational head movements around the vertical axes
H	04	N	13	0475	for tracking forward-backward translational head movements, i.e. longitudinal movements
H	04	N	13	0477	for tracking left-right translational head movements, i.e. lateral movements
H	04	N	13	0479	for tracking rotational head movements in a plane parallel to the screen
H	04	N	13	0481	for tracking vertical translational head movements
H	04	N	13	0484	for tracking with gaze detection, i.e. detecting the lines of sight of the observers eyes
H	04	N	13	0486	alternating rapidly the location of the left-right image components on the display screen

H	04	N	13	0488	Volumetric display, i.e. systems where the image is built up from picture elements distributed over a volume
H	04	N	13	049	the picture elements emitting light where a pair of light beams intersect in a transparent material
H	04	N	13	0493	the volume being generated by a moving, e.g. vibrating or rotating, surface
H	04	N	13	0495	with depth sampling, i.e. the volume being constructed from a stack or sequence of 2D image planes
H	04	N	13	0497	Synchronisation or controlling aspects synchronization processes at server side, e.g. processing of program clock references H04N21/242; content synchronization processes at client side H04N21/4302
H	04	N	2013	0461	Privacy aspects, i.e. devices showing different images to different viewers, the images not being viewpoints of the same scene not used, see subgroups
H	04	N	2013	0463	the images being monoscopic
H	04	N	2013	0465	the images being stereoscopic or three dimensional
H	04	N	5	3458	by preserving the color pattern with or without loss of information
H	04	W	28	042	Treating collisions
H	04	W	28	044	Collision avoidance
H	04	W	28	046	Collision detection
H	04	W	28	048	Treating noise or interference means associated with receiver for limiting or suppressing noise or interference induced by transmission H04B1/10; baseband systems or shaping networks in transmitter or receiver H04L25/03
H	04	W	4	001	Provisioning or reconfiguring application services, e.g. OMA DM network management H04L12/24; network arrangements or communication protocols for networked applications involving the movement of software or configuration parameters, e.g. applets H04L67/34; program loading or initiating G06F9/445; mobile agents G06F9/4862
H	04	W	4	003	Mobile application execution environments for application services, e.g. communicating with application store or appstore servers in the application service network and vice versa, 3GPP SIM Application toolkit [SAT], 3GPP OSA or 3GPP MEXE processing of user or subscriber data at user equipment or user record carrier H04W8/183
H	04	W	4	005	for Machine-to-Machine communication [M2M, MTC], e.g. 3GPP M2M, OMA M2M, 3GPP MTC or Wireless Sensor Networks [WSN] self-organizing networks H04W84/18; network arrangements or communication protocols for networked applications adapted for proprietary or special purpose networking environments, e.g. medical networks, sensor networks, networks in a car, remote metering networks H04L67/12; mechanical means for transferring the output of a sensing member G01D5/00
H	04	W	4	006	using cooperative applications for harvesting, aggregating or forwarding data, e.g. data fusion, aggregation or diffusion in WSN, master/slave node hierarchy negotiations in WSN
H	04	W	4	008	using short range communication, e.g. NFC, RFID or PAN telephonic substation extension arrangements interfacing with an external accessory using a two-way short-range wireless interface H04M1/7253; mechanical means for transferring the output of a sensing member G01D5/00; near-field transmission systems H04B5/00
H	04	W	4	028	using historical or predicted position information, e.g. trajectory data

					for socializing or targeting users of the same wireless application service, e.g. joint gesture signalling or mobile advertising signalling marketing G06Q30/02;
H	04	W	4	206	input arrangements for transferring data to be processed into a form capable of being handled by the computer for entering handwritten data G06F3/04883
					Mobile application service emergency connection handling or mobile application services handling urgent or hazardous situations, e.g. 3GPP earthquake and tsunami warning system [ETWS] connection management for emergency connection handling H04W76/007; centralised arrangements for answering calls for emergency applications requiring operator intervention
H	04	W	4	22	H04M3/5116
H	04	W	4	26	Usage measurement
H	04	W	76	002	for selective distribution or broadcast
H	04	W	76	005	for Push-to-Talk or Push-on-Call services
H	04	W	76	007	for emergency connection handling
H	04	W	76	02	Connection set-up
H	04	W	76	021	Allocation or use of connection identifiers
H	04	W	76	022	Set-up of transport tunnels
H	04	W	76	023	Direct mode set-up
H	04	W	76	025	Set-up of multiple wireless link connections
H	04	W	76	026	involving adjacent core network technologies
H	04	W	76	027	Management of set-up rejection or failure
H	04	W	76	028	Connection re-establishment
H	04	W	76	04	Connection manipulation
H	04	W	76	041	Manipulation of transport tunnels
H	04	W	76	043	Direct mode connection manipulation
H	04	W	76	045	Maintenance of an established connection
H	04	W	76	046	Transitions among RRC [Radio Resource Control] states
H	04	W	76	048	Discontinuous transmission or reception [DTX, DRX]
H	04	W	76	06	Connection release
H	04	W	76	062	Release of transport tunnels
H	04	W	76	064	Selective release of ongoing connections
H	04	W	76	066	for the purpose of reassigning the resources associated with the released connections
H	04	W	76	068	Connection release triggered by timers
H	05	B	3	0028	electrical diagrams for heating by particular resistances
H	05	B	3	026	the current passing through particular resistances
H	05	B	33	0833	with control of the intensity of light emitted by the LEDs
H	05	B	33	0836	by means of a linear regulator
H	05	B	33	0839	by means of a switching converter
H	05	B	33	0875	with detection of abnormal operating conditions
H	05	B	33	0878	of the circuit arrangement
H	05	B	33	0881	of the LEDs
H	05	K	13	0023	Making assemblies of electric components, e.g. modules H05K13/04 take precedence
H	05	K	13	0046	Encapsulation of electrical assemblies in resins hermetically-sealed casings H05K5/06
Y	02	B	10	60	Use of biomass for heating
Y	02	B	20	325	Specially adapted circuits
Y	02	B	30	123	Self contained heating units using heat pumps

Y	02	B	30	126	combined with the use of heat accumulated in storage masses
Y	02	B	60	00	Information and communication technologies [ICT] aiming at the reduction of own energy use
Y	02	B	60	10	Energy efficient computing
Y	02	B	60	12	Reducing energy-consumption at the single machine level, e.g. processors, personal computers, peripherals, power supply
Y	02	B	60	1203	involving a plurality of components
Y	02	B	60	1207	acting upon the main processing unit
Y	02	B	60	121	Low-power processors
Y	02	B	60	1214	Performance modes
Y	02	B	60	1217	Frequency modification
Y	02	B	60	1221	Clock disabling
Y	02	B	60	1225	Access, addressing or allocation within memory systems or architectures, e.g. to reduce power consumption or heat production, or to increase battery life
Y	02	B	60	1228	Interconnection, or transfer of information or other signals between, memories, peripherals or central processing units
Y	02	B	60	1232	Acting upon peripherals
Y	02	B	60	1235	the peripheral being a bus
Y	02	B	60	1239	the peripheral being a memory control unit [MCU]
Y	02	B	60	1242	the peripheral being a display
Y	02	B	60	1246	the peripheral being disc or storage devices
Y	02	B	60	125	The peripheral being a CD-ROM unit
Y	02	B	60	1253	the peripheral being a cursor control device
Y	02	B	60	1257	the peripheral being a keyboard
Y	02	B	60	126	the peripheral being a modem
Y	02	B	60	1264	the peripheral being a PCMCIA card
Y	02	B	60	1267	the peripheral being a printer
Y	02	B	60	1271	Data transfer to print units
Y	02	B	60	1275	Cooling means for computing equipment provided with thermal management
Y	02	B	60	1278	Power management
Y	02	B	60	1282	Selective power distribution
Y	02	B	60	1285	Controlling the supply voltage
Y	02	B	60	1289	Monitoring user presence
Y	02	B	60	1292	Battery monitoring
Y	02	B	60	1296	Power strips aiming to energy efficient operation
Y	02	B	60	14	Reducing energy-consumption by means of multiprocessor or multiprocessing based techniques, other than acting upon the power supply
Y	02	B	60	142	Resource allocation
Y	02	B	60	144	Scheduling
Y	02	B	60	146	Increasing resource utilisation, e.g. virtualisation, consolidation
Y	02	B	60	148	Load distribution
Y	02	B	60	16	Reducing energy-consumption in distributed systems
Y	02	B	60	162	Delegation or migration
Y	02	B	60	165	Monitoring
Y	02	B	60	167	Resource sharing
Y	02	B	60	18	Reducing energy consumption at software or application level
Y	02	B	60	181	Compilation

Y	02	B	60	183	Installation
Y	02	B	60	185	At application level, i.e. feedback, prediction, usage patterns
Y	02	B	60	186	Suspending or hibernating, performance or eco-modes, operating system support, e.g. advanced configuration and power interface [ACPI]
Y	02	B	60	188	Information retrieval in databases
Y	02	B	60	30	Techniques for reducing energy-consumption in wire-line communication networks
Y	02	B	60	31	using reduced link rate, e.g. adaptive link rate, not involving auto-negotiation
Y	02	B	60	32	using subset functionality
Y	02	B	60	33	by selective link activation in bundled links
Y	02	B	60	34	by operating in low-power or sleep mode
Y	02	B	60	35	specifically suitable for Ethernet, e.g. IEEE802.3az
Y	02	B	60	36	specifically suitable for DSL
Y	02	B	60	40	High level techniques for reducing energy-consumption in communication networks
Y	02	B	60	41	by proxying, i.e. delegating network functionalities while in low-power mode, e.g. ECMA 393 standard
Y	02	B	60	42	by energy-aware routing
Y	02	B	60	43	by signaling and coordination, e.g. signaling reduction, link layer discovery protocol [LLDP], control policies, green TCP
Y	02	B	60	44	specifically suitable for Ethernet, e.g. IEEE802.3az
Y	02	B	60	45	specifically suitable for DSL
Y	02	B	60	46	Application modification for reducing energy-consumption, e.g. green peer-to-peer,
Y	02	B	60	50	Techniques for reducing energy-consumption in wireless communication networks
Y	02	T	10	38	Non-fossil fuels
Y	02	T	10	647	One electric drive machine
Y	02	T	10	648	Two electric drive machines
Y	02	T	10	649	More than two electric drive machines
Y	02	T	10	7266	Automated control
Y	02	T	10	867	Others, e.g. wheel construction
Y	02	T	50	145	Morphing wings or smart wings
Y	02	T	50	168	actively
Y	02	T	50	433	Composites
Y	02	T	50	436	Metallic lightweight
Y	02	T	50	47	Materials
Y	02	T	50	48	Design measures
Y	02	T	50	545	All electric architecture
Y	02	T	50	57	Reduction of energy losses
Y	02	T	50	58	Optimization of hot and cold sources on board an aircraft
Y	02	T	50	69	Solar cells as on board power source
Y	02	T	50	70	Enabling use of sustainable fuels
Y	02	T	50	72	Synthetic fuels
Y	02	T	50	74	Bio fuels
Y	02	T	90	164	Charging station suitability
Y	02	T	90	165	Charging station location
Y	02	T	90	166	Charging station availability
Y	10	S	505	787	

Y	10	T	403	3973	Oblique rod
Y	10	T	403	4622	Gland type
Y	10	T	403	4625	Rod and side gripped simultaneously by single actuation
Y	10	T	403	4628	Rod clamped to hole edge
Y	10	T	403	4631	Rod to open edge of side, e.g., wrap-around connection
Y	10	T	403	4651	Rod is expanded by component inserted from distal side
Y	10	T	403	4654	Separate and deformable component
Y	10	T	403	4657	Plural contacting components
Y	10	T	403	4661	Barbed component
Y	10	T	403	4662	Inserted, blind-side-engaging, retaining portion on rod
Y	10	T	403	4665	Stepped or tapered recess in side
Y	10	T	403	4668	Terminal, rod-attached retainer engages distal side
Y	10	T	403	4671	Inserted into rod
Y	10	T	403	4674	Clamped member
Y	10	T	403	4677	Clamping component engages recessed side
Y	10	T	403	4681	Bolted to rod
Y	10	T	403	4682	Between rod shoulder and terminal nut
Y	10	T	403	4685	Bolted through member
Y	10	T	403	4688	Coaxial collar or shoulder or rod is clamp element
Y	10	T	403	4691	Flange on rod bolted to side
Y	10	T	403	4694	Rod received in recessed side, e.g., socket or tapered opening, etc.
Y	10	T	403	4697	Utilizing internal rod structure
Y	10	T	403	64	Interconnected flanges or shoulders
Y	10	T	403	642	Separate flange or shoulder
Y	10	T	403	645	Axially bolted or riveted
Y	10	T	403	648	Clamped
Y	10	T	403	7039	Socket
Y	10	T	403	7094	Enlarged head in complementary recess, e.g., dovetail, etc.

old IPC					**TEXT**
A	01	B	45	04	for cutting sods or turf
A	01	G	1	00	Horticulture; Cultivation of vegetables (labels or name-plates G09F 3/00, G09F 7/00)
A	01	G	1	02	Cultivation of asparagus
A	01	G	1	04	Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms C05)
A	01	G	1	06	Grafting (grafting-wax A01N 3/04)
A	01	G	1	08	Edging for beds, lawns, or the like, e.g. using tiles
A	01	G	1	12	Tools for cultivating turf; Sweeping apparatus for lawns; Gardens rollers (machines for treating meadows or lawns A01B 45/00; lawn-mowers A01D 34/00)
A	01	G	16	00	Cultivation of rice (A01G 9/00 takes precedence)
A	01	G	9	10	Pots for seedlings; Soil-blocks for seedlings; Means for forming soil-blocks
A	41	D	1	20	Maternity clothing
A	61	K	38	11	Oxytocins; Vasopressins; Related peptides
B	05	B	15	02	Arrangements or devices for cleaning discharge openings
B	05	B	15	04	Control of spray area, e.g. masking, side shields; Means for collection or re-use of excess material (B05B 1/28 takes precedence)

B	05	B	15	06	Mountings, supporting or holding means, or rests for spray heads or other outlets when in use or out of use (B05B 15/10 takes precedence)
B	05	B	15	08	Means for adjusting position of spray heads
B	05	B	15	10	Arrangements for moving spray heads automatically to or from the working position
B	05	B	15	12	Spray booths
B	29	C	47	00	Extrusion moulding, i.e. expressing the moulding material through a die or nozzle which imparts the desired form; Apparatus therefor (extrusion blow-moulding B29C 49/04)
B	29	C	47	02	incorporating preformed parts or layers, e.g. extrusion moulding around inserts or for coating articles
B	29	C	47	04	of multilayered or multicoloured articles
B	29	C	47	06	Multilayered articles
B	29	C	47	08	Component parts, details or accessories; Auxiliary operations
B	29	C	47	10	Feeding the material to the extruder
B	29	C	47	12	Extrusion nozzles or dies
B	29	C	47	14	with broad opening, e.g. for sheets
B	29	C	47	16	adjustable
B	29	C	47	18	with die parts oscillating relative to each other
B	29	C	47	20	with annular opening, e.g. for tubular articles
B	29	C	47	22	adjustable
B	29	C	47	24	with die parts rotatable relative to each other
B	29	C	47	26	Multiple annular extrusion nozzles
B	29	C	47	28	Cross-head annular extrusion nozzles
B	29	C	47	30	Multi-port extrusion nozzles
B	29	C	47	32	Roller-extrusion nozzles
B	29	C	47	34	Conveyors for extruded material
B	29	C	47	36	Means for plasticising or homogenising the moulding material or forcing it through the nozzle or die
B	29	C	47	38	using screws
B	29	C	47	40	using at least two intermeshing screws
B	29	C	47	42	using sub-screws, e.g. planetary screws
B	29	C	47	44	using axially movable screws
B	29	C	47	46	using screws extruding in opposite directions
B	29	C	47	48	using screws arranged coaxially, one within the other
B	29	C	47	50	using at least two screws, one after the other, e.g. multi-stage plasticisers
B	29	C	47	52	using rollers or discs
B	29	C	47	54	using press rams or pistons
B	29	C	47	56	using more than one extruder to feed one die
B	29	C	47	58	Details
B	29	C	47	60	Screws
B	29	C	47	62	having more than one screw-thread
B	29	C	47	64	having incorporated mixing devices
B	29	C	47	66	Barrels or cylinders
B	29	C	47	68	Filters
B	29	C	47	70	Flow dividers
B	29	C	47	72	Feedback means
B	29	C	47	74	By-pass means
B	29	C	47	76	Venting or degassing means

					Heating or cooling the material to be extruded or the stream of extruded
B	29	C	47	78	material
B	29	C	47	80	at plasticising zone
B	29	C	47	82	Heating the cylinders
B	29	C	47	84	Heating the screws
B	29	C	47	86	at nozzle zone
B	29	C	47	88	Heating or cooling the stream of extruded material
B	29	C	47	90	with calibration or sizing
B	29	C	47	92	Measuring, controlling or regulating
B	29	C	47	94	Lubricating
B	29	C	47	96	Safety devices
					Electric propulsion with power supplied within the vehicle (B60L 8/00, B60L 13/00 take precedence; arrangements or mounting of prime-movers consisting of electric motors and internal combustion engines for mutual or
B	60	L	11	00	common propulsion B60K 6/20)
B	60	L	11	02	using engine-driven generators
B	60	L	11	04	using dc generators and motors
B	60	L	11	06	using ac generators and dc motors
B	60	L	11	08	using ac generators and motors
B	60	L	11	10	using dc generators and ac motors
B	60	L	11	12	with additional electric power supply, e.g. accumulator
B	60	L	11	14	with provision for direct mechanical propulsion
B	60	L	11	16	using power stored mechanically, e.g. in flywheel
B	60	L	11	18	using power supplied from primary cells, secondary cells, or fuel cells
B	60	N	2	44	Details or parts not otherwise provided for
B	60	N	2	46	Arm-rests
B	60	N	2	48	Head-rests
C	09	D	7	02	Use of compounds as anti-settling agents
C	09	D	7	04	Use of compounds as anti-skinning agents
C	09	D	7	06	Use of compounds as levelling agents
C	09	D	7	12	Other additives
C	09	D	7	14	Special processes for incorporating ingredients
C	09	J	7	02	on carriers
					on paper or textile fabric (adhesive bandages, dressings or absorbent pads
C	09	J	7	04	A61L 15/16)
C	12	G	3	10	Increasing the alcohol content
C	12	G	3	12	by distillation
C	12	G	3	14	by freezing
C	40	B	30	02	In silico screening
C	40	B	50	02	In silico or mathematical conception of libraries
F	21	S	8	10	specially adapted for vehicles
					providing a single shaped beam, e.g. asymmetric beam, e.g. for penetrating
F	21	S	8	12	fog or for preventing glare
					with provision for variation of the colour or intensity (F21V 9/12 takes
F	21	V	9	10	precedence)
F	21	V	9	16	Selection of luminescent materials for light screens
F	21	W	101	00	Use or application of lighting devices on or in vehicles
F	21	W	101	02	for land vehicles
F	21	W	101	023	for cycles
F	21	W	101	027	for motorcycles

F	21	W	101	04	for water vehicles
F	21	W	101	06	for aircraft
F	21	W	101	08	Interior lights
F	21	W	101	10	Head-, spot- or fog-lights
F	21	W	101	12	Direction indicator lights
F	21	W	101	14	Rear or stop lights
F	24	F	11	02	Arrangement or mounting of control or safety devices
F	24	F	11	04	solely for controlling the rate of air-flow
F	24	F	11	047	to constant value
F	24	F	11	053	by means responsive to temperature
F	24	F	11	06	solely for controlling the supply of heating or cooling fluids for secondary treatment (F24F 11/08 takes precedence)
F	24	F	11	08	for controlling the primary treatment of air
F	24	J	-	-	PRODUCTION OR USE OF HEAT NOT OTHERWISE PROVIDED FOR (materials therefor C09K 5/00; engines or other mechanisms for producing mechanical power from heat, the relevant classes, e.g. F03G for using natural heat)
F	24	J	1	00	Apparatus or devices using heat produced by exothermal chemical reactions other than by combustion (for cooking-vessels A47J 36/28; self-heating compresses A61F 7/03; materials for the production of heat or cold undergoing non-reversible chemical reactions, other than by combustion, when used C09K 5/18)
F	24	J	2	00	Use of solar heat, e.g. solar heat collectors (distillation or evaporation of water using solar energy C02F 1/14; roof covering aspects of energy collecting devices E04D 13/18; devices for producing mechanical power from solar energy F03G 6/00; semiconductor devices specially adapted for converting solar energy into electrical energy H01L 31/00; photovoltaic [PV] cells including means directly associated with the PV cell to utilise heat energy H01L 31/0525; PV modules including means associated with the PV module to utilise heat energy H02S 40/44)
F	24	J	2	02	Solar heat collectors with support for article heated, e.g. stoves, ranges, crucibles, furnaces or ovens using solar heat
F	24	J	2	04	Solar heat collectors having working fluid conveyed through collector
F	24	J	2	05	surrounded by a transparent enclosure, e.g. evacuated solar collectors
F	24	J	2	06	having concentrating elements (optical elements or systems G02B)
F	24	J	2	07	Receivers working at high temperature, e.g. for solar power plants
F	24	J	2	08	having lenses as concentrating elements
F	24	J	2	10	having reflectors as concentrating elements
F	24	J	2	12	parabolic
F	24	J	2	13	hemispherical
F	24	J	2	14	semi-cylindrical or cylindro-parabolic
F	24	J	2	15	conical
F	24	J	2	16	having flat plates
F	24	J	2	18	spaced, opposed interacting reflecting surfaces
F	24	J	2	20	the working fluid being conveyed between plates
F	24	J	2	22	having extended surfaces, e.g. protrusions, corrugations (F24J 2/28 takes precedence)
F	24	J	2	23	the working fluid trickling freely over collector elements
F	24	J	2	24	the working fluid being conveyed through tubular heat absorbing conduits
F	24	J	2	26	having extended surfaces, e.g. protrusions (F24J 2/28 takes precedence)

F	24	J	2	28	having permeable mass, foraminous or porous materials
F	24	J	2	30	with means to exchange heat between plural fluids
F	24	J	2	32	having evaporator and condenser section, e.g. heat pipe
F	24	J	2	34	having heat storage mass
F	24	J	2	36	Rollable or foldable collector units
F	24	J	2	38	employing tracking means (F24J 2/02, F24J 2/06 take precedence; rotary supports or mountings therefor F24J 2/54; supporting structures of photovoltaic modules for generation of electric power specially adapted for solar tracking systems H02S 20/32)
F	24	J	2	40	Control arrangements
F	24	J	2	42	Solar heat systems not otherwise provided for
F	24	J	2	44	having thermosiphonic circulation
F	24	J	2	46	Component parts, details or accessories of solar heat collectors
F	24	J	2	48	characterised by the absorber material
F	24	J	2	50	Transparent coverings
F	24	J	2	51	Thermal insulation (F24J 2/50 takes precedence)
F	24	J	2	52	Arrangement of mountings or supports
F	24	J	2	54	specially adapted for rotary movement
F	24	J	3	00	Other production or use of heat, not derived from combustion (use of solar heat F24J 2/00)
F	24	J	3	06	using natural heat
F	24	J	3	08	using geothermal heat (devices for producing mechanical power from geothermal energy F03G 4/00)
F	25	C	5	16	Tools or devices for ice handling not covered by any other subclass
G	01	N	23	08	using electric detection means
G	01	N	23	14	specially adapted for controlling or monitoring operations or for signalling
G	01	N	23	206	the radiation being neutrons
G	06	F	15	18	in which a program is changed according to experience gained by the computer itself during a complete run; Learning machines (adaptive control systems G05B 13/00; artificial intelligence G06N)
G	06	F	17	30	Information retrieval; Database structures therefor
G	06	F	19	00	Digital computing or data processing equipment or methods, specially adapted for specific applications (specially adapted for specific functions G06F 17/00; data processing systems or methods specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes G06Q; healthcare informatics G16H)
G	06	F	19	10	Bioinformatics, i.e. methods or systems for genetic or protein-related data processing in computational molecular biology (methods of screening virtual chemical libraries C40B 30/02; or mathematical methods of creating virtual chemical libraries C40B 50/02)
G	06	F	19	12	for modelling or simulation in systems biology, e.g. probabilistic or dynamic models, gene-regulatory networks, protein interaction networks or metabolic networks
G	06	F	19	14	for phylogeny or evolution, e.g. evolutionarily conserved regions determination or phylogenetic tree construction
G	06	F	19	16	for molecular structure, e.g. structure alignment, structural or functional relations, protein folding, domain topologies, drug targeting using structure data, involving two-dimensional or three-dimensional structures

					for functional genomics or proteomics, e.g. genotype-phenotype associations, linkage disequilibrium, population genetics, binding site identification, mutagenesis, genotyping or genome annotation, protein-protein interactions
G	06	F	19	18	or protein-nucleic acid interactions
					for hybridisation or gene expression, e.g. microarrays, sequencing by hybridisation, normalisation, profiling, noise correction models, expression
G	06	F	19	20	ratio estimation, probe design or probe optimisation
					for sequence comparison involving nucleotides or amino acids, e.g. homology search, motif or Single-Nucleotide Polymorphism [SNP] discovery or
G	06	F	19	22	sequence alignment
					for machine learning, data mining or biostatistics, e.g. pattern finding,
G	06	F	19	24	knowledge discovery, rule extraction, correlation, clustering or classification
					for data visualisation, e.g. graphics generation, display of maps or networks or
G	06	F	19	26	other visual representations
					for programming tools or database systems, e.g. ontologies, heterogeneous
G	06	F	19	28	data integration, data warehousing or computing architectures
					Arrangements for executing subprogrammes, i.e. combinations of several
G	06	F	9	40	instructions
G	06	F	9	42	Formation of subprogramme-jump address or of return address
G	06	F	9	45	Compilation or interpretation of high level programme languages
					Patient record management (processing of medical or biological data for
G	06	Q	50	24	scientific purposes G06F 19/00)
G	21	C	1	01	General details not provided for in groups
H	04	N	13	02	Picture signal generators
H	04	N	13	04	Picture reproducers
H	04	N	15	00	Stereoscopic colour television systems; Details thereof
H	04	W	4	04	in a dedicated environment, e.g. buildings or vehicles
H	04	W	4	22	Emergency connection handling
H	04	W	4	26	Usage measurement
H	04	W	76	02	Connection set-up
H	04	W	76	04	Connection manipulation
H	04	W	76	06	Connection release