

# Compilation of amendments between 2009.01 and 2010.01 advanced level IPC

A01B			[Session: CE41, Project/Projet: D067]
	M	45/04	• for cutting sods or <del>turf</del> <i>turf</i>

  

A01D			[Session: CE41, Project/Projet: D067]
Sq430	M	3/00	Non-abrasive sharpening devices for scythes, sickles, or the like ( <del>abrasive or similar sharpening devices B24D 15/06</del> )
Sq440	M	5/00	Containers for whetstones for use during harvesting ( <del>whetting implements B24D 15/00</del> )
Sq400	M	7/00	Rakes ( mowers convertible to rakes or capable of raking A01D 42/02 ; mowers combined with rakes A01D 43/02 ; <del>haymakers, crop conditioners A01D 76/00-A01D 84/00</del> )
	M	23/04	• cutting the tops after being lifted ( <del>processing of harvested produce in bulk A01F 29/00, A23N</del> )
Sq170	M	37/00	Reaper-binders ( <del>features relating to mowing only A01D 34/00, to binding only A01D 39/00</del> ; equipment thereon for binding harvested or mown produce, e.g. knotters, A01D 59/00 )
Sq160	M	41/00	Combines, i.e. harvesters or mowers combined with threshing devices ( <del>threshing devices for combines A01F 7/00-A01F 12/00</del> )
Sq290	M	59/00	Equipment for binding harvested or mown produce ( specially adapted for baling presses A01F 15/14 ; <del>bundling articles for packaging in general B65B 13/00</del> )
	M	59/12	• Containers for the twine ( <del>twine balls or their manufacture B65H</del> )
Sq250	M	61/00	Elevators or conveyers for binders or combines ( <del>conveying in general B65G ; hoisting, lifting, in general B66</del> )
	M	75/08	• Sharpening apparatus fixed to the harvester or mower ( <del>sharpening machines or devices per se B24B, B24D</del> )
	M	75/18	• Safety devices for parts of the machines ( <del>safety devices in general F16P</del> )
	M	75/20	• Devices for protecting men or animals ( <del>safety devices in general F16P</del> )
Sq370	M	87/00	Loaders for hay or like field crops ( combined with mowers A01D 43/06 ; <del>loading in general B65G, B66</del> )
Sq360	M	90/00	Vehicles for carrying harvested crops with means for selfloading or unloading ( combined with mowers A01D 43/06 ; <del>load transporting vehicles modified to facilitate loading, in general, B60P ; bucket cars, i.e. having scraper bowls, E02F 3/64</del> ) [2]

  

A01F			[Session: CE41, Project/Projet: M100]
	M	Title	THRESHING ( <i>combines A01D 41/00</i> ) ; BALING OF STRAW, HAY OR THE LIKE ; STATIONARY APPARATUS OR HAND TOOLS FOR FORMING OR BINDING STRAW <del>OR HAY, HAY OR THE LIKE</del> INTO BUNDLES ; CUTTING OF <del>HAY,</del>

			<b>STRAW</b> <i>STRAW, HAY</i> OR THE LIKE ; STORING AGRICULTURAL OR HORTICULTURAL PRODUCE ( <i>arrangements for making or setting stacks in connection with harvesting A01D 85/00</i> )
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M Subclass index Subclass Index

#### THRESHING

<del>General construction</del>	5/00 , 7/00, 9/00
<i>Functional types of apparatus</i>	5/00, 7/00
Special applications	11/00
Details	12/00
BALING OF STRAW , HAY OR THE LIKE	1/00 , 13/00, 15/00
ACCESSORIES FOR THRESHING MACHINES OR BALING PRESSES	17/00 , 19/00, 21/00
STORING AGRICULTURAL OR HORTICULTURAL PRODUCE	25/00
MACHINES OR IMPLEMENTS FOR CUTTING <del>HAY OR STRAW</del> - <i>STRAW, HAY OR THE</i>	3/00, 29/00
<i>LIKE</i>	

D Guidance

Heading before

1/00 - 3/00

Sq90	M	1/00	Stationary apparatus or hand tools for forming or binding straw- <del>or hay</del> , <i>hay or the like</i> into bundles ( baling apparatus or presses A01F 13/00, A01F 15/00 ; <del>binders</del> <i>mobile binders for use in the field</i> A01D 37/00, A01D 39/00 ) [3]
	M	1/06	• Ties for <del>straw</del> -bundles
Sq10	M	3/00	Hand-operated implements for cutting-up <del>hay or straw</del> <i>straw, hay or the like</i> ( mechanically-driven straw cutters A01F 29/00 ; <del>cutting in general B26-</del> )
Sq40	M	7/00	Threshing <del>machines ( with flails A01F 9/00 ) ; Threshing devices for combines</del> <i>apparatus</i>
	M	7/02	• with rotating tools ( <i>threshing cylinders or concaves A01F 12/18</i> )
	M	7/04	• • with axles transverse to the feeding direction
	M	7/06	• • with axles in line with the feeding direction
	N	7/70	• <i>with flails [2010.01]</i>
D		9/00	(transferred to A01F 7/70)
Sq20	M	11/00	Threshing <del>machines adapted for special crops ; Threshing devices for combines adapted for special crops</del> <i>apparatus specially adapted for maize ; Threshing apparatus specially adapted for particular crops other than cereals</i>
	U	11/02	• for flax
	U	11/04	• for clover or like seeds, e.g. lucern
	U	11/06	• for maize, e.g. removing kernels from cobs
	U	11/08	• for palm fruit, e.g. releasing the fruit from the stalk
Sq60	M	12/00	Parts or details of threshing <del>machines ; Parts or details of threshing devices for combines</del> <i>apparatus ( devices, other than safety devices for feeders, for protecting human beings A01D 75/20, A01F 21/00 )</i>
	U	12/34	• • • Sieve elements; Linings for shakers
	M	12/36	• • • Sieve elements <i>specially adapted</i> for handling short straw
M		12/40	• <del>Straw crushing or cutting, e.g. by chaff-cutters ( cutting apparatus of chaff-cutters A01F 29/00 )</del> <i>Arrangements of straw</i>

crushers or cutters

	M	12/42	• Apparatus for removing awns from the grain ( <del>decorticator or removing awns otherwise than in threshing machines B02B-3/00</del> )
	M	12/44	• Grain cleaners ; Separators ( <del>screening or sifting apparatus in general B07B</del> ) <i>Grain separators</i>
	M	12/46	• Mechanical grain conveyers ( <del>conveyers in general B65G</del> )
	M	12/48	• Air conduits or blowers for grain ( <del>for transport in general B65G 51/00, B65G 53/00</del> )
	M	12/50	• Sack-filling devices ; Counting or weighing devices ( <del>packaging in bags B65B 1/00 ; weighing apparatus in general G04G ; counting mechanisms in general G06M</del> )
	M	12/54	• <del>Dust collecting and removing installations</del> <i>Arrangements for collecting or removing dust</i>
	M	12/58	• <del>Steering</del> <i>Control</i> devices ; Brakes ; Bearings
Sq70	M	15/00	Baling presses for straw, hay, or the like ( <del>making compressed stacks A01D 85/00 ; pick-ups A01D 89/00</del> ) [3]
	M	15/08	• <del>Parts</del> <i>Details</i>
	M	15/14	• • <del>Special adaptations of tying devices</del> <i>Tying devices specially adapted</i> for baling presses ( <del>other equipment for binding harvested or mown produce A01D 59/00</del> )
Sq110	M	17/00	Straw conveyers for threshing machines or baling presses ( <del>conveyers in general B65G</del> )
Sq100	M	21/00	Devices for <i>protecting human beings</i> for threshing machines or baling presses <del>for protecting human beings</del> ( in combines A01D 75/20 ; <del>safety devices in general F46P</del> <i>for feeders for threshing apparatus A01F 12/16</i> )
Sq130	M	25/00	Storing agricultural or horticultural produce ; Hanging-up harvested fruit ( <del>preservation of plants A01N 3/00 ; preservation of vegetables or fruit A23B 7/00 ; maturing fruit A23N 15/06 ; arrangements in barns for preparatory treatment of tobacco A24B 1/02 ; storing bulk material in general B65G ; packing or storing hops C12C 3/04 ; drying in general F26B</del> ) [3]
	M	25/13	• Coverings ( A01F 25/14 takes precedence ; <del>protective coverings for plants A01G 13/02</del> ) [3]
	M	25/14	• Containers specially adapted for storing ( <del>silos built by civil engineering techniques E04H 7/22</del> ) [3]
	M	25/16	• Arrangements in forage silos ( <del>loading or unloading arrangements in general B65G ; construction of silos E04H 7/22</del> )
	U	25/18	• • Loading or distributing arrangements [2]
	U	25/20	• • Unloading arrangements [2]
	U	25/22	• • Ventilating arrangements [2]
Sq0	M	29/00	<del>Special adaptations of cutting machines</del> <i>Cutting apparatus specially adapted</i> for cutting hay, straw or fodder ; <del>Cutting apparatus of chaff-cutters</del> <i>the like</i> ( mowers combined with means for cutting up the mown crop A01D 43/08 ; <del>disintegrating in general B02C ; cutting machines in general B26D</del> ) [3]
	M	29/01	• <i>specially adapted for being</i> mounted on or drawn by a tractor, e.g. field choppers [7]
	N	29/09	• <i>Details</i> [2010.01]
	M	29/10	• • Feeding devices [3]
	M	29/12	• • Discharge means ( loaders for hay or like field crop having blowers A01D 87/10 ; <del>conveyers B65G</del> ) [3]
	M	29/14	• • Drives [3]
	M	29/16	• • Safety devices, e.g. emergency brake arrangements [3]
	M	29/18	• • • for protecting human beings [3]

	D	29/20	(transferred to A01F 29/09)
	M	29/22	• • Arrangement of knife sharpening devices ( <del>knife sharpening devices per se B24B</del> ) [3]

A01N			[Session: CE41, Project/Projet: C450]
Sq40	M	63/00	Biocides, pest repellants or attractants, or plant growth regulators containing micro-organisms, viruses, microbial fungi, <del>enzymes, fermentates</del> animals, e.g. nematodes, or substances produced by, or <del>extracted from, micro-organisms or animal material</del> obtained from micro-organisms, viruses, microbial fungi or animals, e.g. enzymes or fermentates ( containing compounds of determined constitution A01N 27/00-A01N 59/00 ) [3]
	M	63/02	• <del>Fermentates or substances</del> Substances produced by, or <del>extracted</del> obtained from, micro-organisms or <del>animal material</del> animals [3]
	M	63/04	• Microbial fungi <del>or extracts thereof</del> ; Substances produced thereby or obtained therefrom [3]

A23K			[Session: CE41, Project/Projet: D069]
Sq0	M	1/00	Animal feeding-stuffs ( <del>detoxicating or removing bitter tastes from seeds, e.g. lupin seeds for fodder or food A23L-1/211</del> )
	M	1/04	• from blood ( <del>proteins from blood A23J-1/06</del> )
	M	1/14	• from vegetable materials, e.g. potatoes or roots without ensilaging ( <del>preserving food A23B, A23L</del> )
	M	1/18	• specially adapted for particular animals ( <del>milk substitutes A23C-11/00</del> )
	M	3/02	• of green fodder ( processing and storing A01F 25/00 ; <del>silos E04H</del> )

A43C			[Session: CE41, Project/Projet: D079]
	M	15/06	• Ice-gripping devices or attachments, e.g. ice-spurs, ice-cleats, ice-creepers, crampons ; Climbing devices or attachments, <del>e.g. mountain climbing irons ( A43C-15/09 takes ( A43C 15/09 takes precedence ; ice-spurs for horseshoes A01L 7/08 )</del> [3]

A44B			[Session: CE41, Project/Projet: M099]
M	Subclass index	<u>Subclass Index</u>	
		BUTTONS ; CARDS THEREFOR	1/00 - 5/00; 7/00
		SLIDE FASTENERS	19/00
		OTHER CLAMPING OR HOLDING DEVICES	6/00 - 18/00, <del>24/00-99/00</del>

[Session: CE41, Project/Projet: D012]			
Sq90	M	1/00	Buttons ( <del>setting on garments A41H 37/10 ; setting on footwear A43D-100/08 ; making buttons, see the relevant groups in the classes for making articles from particular materials</del> )
	M	1/06	• Assembling of buttons ( <del>covering by braiding D04D</del> )
Sq80	M	9/00	Hat, scarf, or safety pins or the like ( decorative or ornamental aspect A44C ; hair pins A45D 8/02 ; <del>sewing needles D05B-85/00</del> )
	M	9/06	• • Hat-pins ( <del>other fastening means for head coverings A42B 7/00</del> )

Sq40	M	18/00	Fasteners of the touch-and-close type ; Making such fasteners <del>(-making-pile-fabrics-D03,-D04-)</del> [3]
	M	19/48	. . . Arranging interlocking members before securing <del>(-article-handling-devices-associated-with-conveyers-in-general-B65G-47/00,-e.g.-B65G-47/14-)</del> [3]

[Session: CE41, Project/Projet: M099]

	D	21/00	(transferred to A44B 99/00)
Sq200	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

A61C

[Session: CE41, Project/Projet: D104]

	M	1/18	. Flexible shafts ; Clutches or the like <del>(-flexible-shafts-in-general-F16C;-clutches-in-general-F16D-)</del>
	M	13/08	. Artificial teeth ; Making same <del>(-kilns-for-artificial-teeth-F27B-)</del>
	M	13/225	. Fastening prostheses in the mouth ( securing tooth crowns in capping teeth A61C 5/08 <del>;-bases-for-prostheses-A61C-13/01-)</del> [4]
	M	13/38	. Tools not otherwise provided for, for use in connection with dental prostheses or the making thereof <del>(-implanting-tools-A61C-8/00-)-thereof</del> [6]
	M	17/10	. with mouth props, tongue guards, tongue depressors or cheek spreaders <del>(-mouth-opening-devices-per-se-A61B-1/24;-tongue-depressors-per-se-A61B-13/00-)-spreaders</del> [5]
	M	19/04	. Measuring instruments specially adapted for dentistry ( radiation diagnosis <del>A61B-6/00</del> A61B 6/14)

A61D

[Session: CE41, Project/Projet: D105]

	M	1/02	. Trocars or cannulas for teats <del>(-milking-catheters-A01J-3/00-);</del> Vaccination appliances
Sq80	M	3/00	Appliances for supporting or fettering animals for operative purposes <del>(-fettering-in-slaughter-houses-A22B-1/00-)</del> purposes
Sq60	M	7/00	Devices or methods for introducing solid, liquid, or gaseous remedies or other materials into or onto the bodies of animals ( for reproduction or fertilisation A61D 19/00 <del>;-syringes-A61M-)</del> [5]
Sq10	M	9/00	Bandages, poultices, compresses specially adapted to veterinary purposes <del>(-fetlock-joint-protecting-rings-A01K-13/00-)</del>
Sq20	M	11/00	Washing devices or gaseous curative baths specially adapted to veterinary purposes <del>(-milking-machine-accessories-for-treatment-of-udders-or-teats-A01J-7/04-)</del>
Sq50	M	15/00	Mouth openers <del>(-devices-to-prevent-crib-biting-A01K-13/00-)</del>

A61F

[Session: CE41, Project/Projet: D098]

	M	5/02	. Orthopaedic corsets <del>(-arm-rests-for-use-as-writing-aids-B43L-15/00-)</del>
	M	5/34	. . . Pressure pads filled with air or liquid ( valves specially adapted for medical use A61M 39/00 <del>;-connection-of-valves-to-inflatable-elastic-bodies-B60C-29/00-)</del>
	M	5/458	. . . adherent or inflatable type <del>(-connection-of-valves-to-inflatable-elastic-bodies-B60C-29/00-)</del> [4]

Sq50	M	7/00	Heating or cooling appliances for medical or therapeutic treatment of the human body ( heating or cooling means in connection with bedsteads or mattresses A47C 21/00 ; hyperthermia using electric or magnetic fields or ultrasound A61N <del>;</del> <del>electric heating elements H05B</del> ) [5]
Sq60	M	9/00	Methods or devices for treatment of the eyes ; Devices for putting in contact-lenses ; Devices to correct squinting ; Apparatus to guide the blind ; Protective devices for the eyes, carried on the body or in the hand ( caps with means for protecting the eyes A42B 1/06 ; visors for helmets A42B 3/22 ; <del>appliances for aiding patients or disabled persons to walk A61H 3/00</del> <del>;</del> eye baths A61H 35/02 ; sunglasses or goggles having the same features as spectacles G02C )
	M	9/02	• Goggles ( <i>for swimming A63B 33/00</i> )

#### A61J

[Session: CE41, Project/Projet: D107]

Sq70	M	1/00	Containers specially adapted for medical or pharmaceutical purposes ( capsules or the like for oral use A61J 3/07 ; boxes for medical appliances, doctors' bags A61B 19/02 ; <del>antithrombogenic treatment of articles for conditioning blood A61L 33/00</del> <del>;</del> <del>devices for introducing media into or onto the body A61M</del> <del>;</del> <del>containers</del> <i>containers</i> for radioactive substances G21F 5/00 ) [4,5]
	M	1/03	• for pills or tablets ( containers <i>for pills or tablets</i> with special dispensing means therefor B65D 83/04 ) [5]
	M	3/02	• into the form of powders ( <del>pulverising in general B02C</del> )
Sq50	M	7/00	Devices for administering medicines orally, e.g. spoons ( <del>calibrated capacity measures for fluids or fluent solid material G01F 19/00</del> <del>;</del> weighing spoons G01G 19/56 ) ; Pill counting devices ; Arrangements for time indication or reminder for taking medicine
Sq30	M	9/00	Feeding-bottles in <del>general ( electric heating elements H05B )</del> <i>general</i>
Sq60	M	13/00	Breast-nipple shields ( <del>breast-pumps A61M 1/06</del> )
Sq40	M	15/00	Feeding-tubes for therapeutic purposes ( <del>drinking tubes as table-ware A47G 21/48</del> )

#### A61N

[Session: CE41, Project/Projet: D014]

Sq30	M	1/00	Electrotherapy ; Circuits therefor ( A61N 2/00 <del>takes precedence</del> <del>;</del> <del>irradiation apparatus A61N 5/00</del> <i>takes precedence</i> ; electrically conductive preparations for use in therapy or testing <u>in vivo</u> A61K 50/00 ) [5]
	M	1/08	• . Arrangements or circuits for monitoring, protecting, controlling or indicating ( for a single specific type of apparatus A61N 1/10-A61N 1/44 <del>;</del> <del>measuring electric variables G01R</del> <del>;</del> <del>control of generator output in general H02P, H03L</del> ) [4]
	M	1/38	• . . for producing shock effects ( <del>in general H05C 1/00</del> )
	M	1/40	• Applying electric fields by inductive or capacitive coupling ( <del>microwave apparatus A61N 5/00</del> )
Sq10	M	5/00	Radiation therapy ( <del>ultrasound therapy A61N 7/00</del> <del>;</del> devices or apparatus applicable to both therapy and diagnosis A61B 6/00 ; applying radioactive material to the body A61M 36/00 ) [5,6]

#### A61P

[Session: CE41, Project/Projet: M711]

	M	Title	<i>SPECIFIC</i> THERAPEUTIC ACTIVITY OF CHEMICAL COMPOUNDS OR MEDICINAL PREPARATIONS [7]
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N	Note(s)	Note(s)
43/00		Classification is only made in this group when a specific therapeutic activity for a chemical compound or medicinal preparation has been clearly disclosed, the specific therapeutic activity not being appropriate to any of groups A61P 1/00-A61P 41/00. <b>[2010.01]</b>

A61Q			[Session: CE41, Project/Projet: M711]
	M	Title	<b>SPECIFIC USE OF COSMETICS OR SIMILAR TOILET PREPARATIONS [8]</b>

N	Note(s)	Note(s)
90/00		Classification is only made in this group when a specific use for a cosmetic or similar toilet preparation has been clearly disclosed, the specific use not being appropriate to any of the preceding groups in this subclass. <b>[2010.01]</b>

A62B			[Session: CE41, Project/Projet: M703]
Sq50	M	29/00	Devices, <b>e.g. installations</b> , for rendering harmless or for keeping off harmful chemical agents ( respiratory apparatus A62B 7/00 ; gasproof doors, windows, shutters E06B )

A62C			[Session: CE41, Project/Projet: M099]
M	Subclass index	<b><u>Subclass Index</u></b>	
		FIRE PREVENTION OR CONTAINMENT; FIRE-EXTINGUISHING FOR PARTICULAR OBJECTS OR PLACES	
		Prevention or containment	2/00
		Flame traps	4/00
		For particular objects or places	3/00
		MAKING FIRE-EXTINGUISHING MATERIALS BEFORE USE	5/00
		HAND TOOLS OR ACCESSORIES	8/00
		PORTABLE EXTINGUISHERS	
		According to operating principle	11/00, 13/00 , 19/00, 25/00
		Knapsack type	15/00
		Pistol or rifle type	17/00
		FIRE-FIGHTING VEHICLES	
		Land vehicles	27/00
		Boats	29/00
		DELIVERY OF FIRE-EXTINGUISHING MATERIALS	31/00
		HOSE ACCESSORIES	33/00
		STATIONARILY-INSTALLED EQUIPMENT	35/00
		CONTROL OF FIRE-FIGHTING EQUIPMENT	37/00
		OTHER METHODS , EQUIPMENT OR ACCESSORIES	<del>39/00</del> -99/00
D	39/00	(transferred to A62C 99/00)	
Sq200	N	99/00	<b>Subject matter not provided for in other groups of this subclass [2010.01]</b>

A62D			[Session: CE41, Project/Projet: D071]
Sq20	M	1/00	Fire-extinguishing compositions ; Use of chemical substances in extinguishing fires ( <del>fireproof-paints C09D 5/18 ; fireproofing materials C09K 21/00</del> )
[Session: CE41, Project/Projet: M703]			
Sq10	M	3/00	Processes for making harmful chemical substances harmless, or less harmful, by effecting a chemical change in the substances ( <del>devices for rendering harmful chemical agents harmless A62B 29/00</del> ; consuming noxious gases by combustion F23G 7/06 ) [1,2007.01]
[Session: CE41, Project/Projet: D071]			
	M	7/02	• Clear-view sheets which prevent the formation of water drops or ice ( <del>materials for minimising adherence of ice or water to surfaces C09K 3/18</del> )
Sq0	M	9/00	Composition of chemical substances for use in breathing apparatus ( <del>production of oxygen-generating compounds in general, processes for the production of oxygen from chemicals in general C01B 13/00, C25B 1/02</del> )
A63B			[Session: CE41, Project/Projet: D079]
Sq20	M	21/00	Exercising apparatus for developing or strengthening the muscles or joints of the body by working against a counterforce, with or without measuring devices ( electric or electronic controls therefor A63B 24/00 ; <del>measuring-muscular strength A61B 5/22</del> )
Sq180	M	29/00	Apparatus for mountaineering ( helmets A42B 3/00 ; non-skid devices or attachments for footwear, e.g. <del>mountain-climbing irons</del> <del>crampons</del> , A43C 15/00 ; breathing masks or helmets for use at high altitudes A62B 18/00 ; picks B25D 7/00 ) [3]
	M	29/02	• Mountain guy-ropes or accessories, e.g. avalanche ropes ; Means for indicating the location of accidentally buried, e.g. snow-buried, persons ( <del>detecting hidden masses G01V</del> )
Sq260	M	41/00	Hollow inflatable balls ( <del>connecting valves to inflatable elastic bodies B60C 29/00 ; valves, e.g. self-closing valves, F16K</del> )
	M	41/12	• Tools or devices for blowing up or closing balls ( <del>air-pumps F04</del> )
	M	55/08	• Wheeled carriers for golf bags ( <del>running gear or propulsion features B60</del> )
Sq360	M	65/00	Implements for throwing ( throwing toys A63H 33/18 ; <del>throwing weapons F41B</del> )
	M	69/40	• Stationarily-arranged devices for projecting balls ( <del>sling weapons F41B 3/00</del> ; traps for clay-pigeon targets F41J 9/18 )
	M	71/06	• Indicating or scoring devices for games or players ( <del>timing devices G07C</del> )
	M	71/16	• . . . air-filled ( <del>connection of valves to inflatable elastic bodies B60C 29/00</del> )
B01L			[Session: CE41, Project/Projet: M099]
Sq10	M	7/00	Heating or cooling apparatus ( evaporators B01D 1/00 ; drying gases or vapours, e.g. desiccators, B01D 53/26 ;



			autoclaves B01J 3/04 ; <del>burners F23D ; refrigeration or cooling, in general F25 ;</del> drying ovens F26B ; furnaces, ovens F27 ) ; <i>Heat insulating devices</i> [3]
	N	7/04	· <i>Heat insulating devices, e.g. jackets for flasks</i> [2010.01]
	D	11/00	(transferred to B01L 99/00)
	D	11/02	(transferred to B01L 7/04)
Sq100	N	99/00	<i>Subject matter not provided for in other groups of this subclass</i> [2010.01]

B05B			[Session: CE41, Project/Projet: D076]
	M	Title	SPRAYING APPARATUS ; ATOMISING APPARATUS ; NOZZLES ( spray-mixers with nozzles B01F 5/20 ; processes for applying liquids or other fluent materials to surfaces by spraying B05D <del> ; means for pumping fluids F04 ; valves, e.g. water-taps, F16K</del> ) [2]
Sq40	M	1/00	Nozzles, spray heads or other outlets, with or without auxiliary devices such as valves, heating means ( B05B 3/00, B05B 5/00, B05B 7/00 take precedence ; devices for applying liquids or other fluent materials to surfaces by contact B05C ; nozzles for ink-jet printing mechanisms B41J 2/135 ; <del>closures for containers B65D ;</del> nozzles for liquid-dispensing, e.g. in vehicle service stations, <del>B67D 5/37</del> <i>B67D 7/42</i> )
	M	7/04	· · with arrangements for mixing liquids or other fluent materials before discharge ( <del>mixing in general B01F, e.g. B01F 5/00 ; mixing-valves F16K 11/00</del> ) [2]
Sq0	M	12/00	Arrangements or special adaptations of delivery controlling means in spraying systems ( <del>controlling in general G05</del> ) [2]
Sq90	M	15/00	Details of spraying plant or apparatus not otherwise provided for ; Accessories ( <del>accessories applicable to other methods of applying liquids or other fluent materials to surfaces B05C</del> ) [4]

B24D			[Session: CE41, Project/Projet: M099]
M	Subclass index	<u>Subclass Index</u>	
		PHYSICAL FEATURES OR CONSTITUENTS OF ABRASIVE BODIES OR SHEETS	3/00
		ABRASIVE WHEELS	5/00, 7/00 , 9/00, 13/00
		FLEXIBLE ABRASIVE MATERIALS	11/00
		HAND TOOLS	15/00
		<del>OTHER TOOLS-</del>	17/00
		MANUFACTURE	18/00
		<i>OTHER TOOLS</i>	99/00
	D	17/00	(transferred to B24D 99/00)
Sq100	N	99/00	<i>Subject matter not provided for in other groups of this subclass</i> [2010.01]

B27K			[Session: CE41, Project/Projet: M700]
	M	Title	PROCESSES, APPARATUS OR SELECTION OF SUBSTANCES FOR IMPREGNATING, STAINING, DYEING, <i>OR</i> BLEACHING OF WOOD, <i>OR FOR TREATING OF WOOD WITH PERMEANT LIQUIDS, NOT OTHERWISE PROVIDED FOR</i>

			<p>( applying liquids or other fluent materials to surfaces in general B05 ; coating wood or similar material B44D ) ;</p> <p><del>CHEMICAL OR PHYSICAL TREATMENT OF CORK, CANE, REED, STRAW OR SIMILAR MATERIALS ; OR TREATING OF WOOD OR SIMILAR MATERIALS WITH PERMEANT LIQUIDS, NOT OTHERWISE PROVIDED FOR ( applying liquids or other fluent materials to surfaces in general B05 ; coating wood or similar material B44D ) ; CHEMICAL OR PHYSICAL TREATMENT OF CORK, CANE, REED, STRAW OR SIMILAR MATERIALS</del> [2]</p>
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## B29

[Session: CE41, Project/Projet: C441]

- |   |                  |    |   |
|---|------------------|----|---|
| M | Note after title | 1. | <p>This class <del>does not cover</del> the working of plastics sheet material in a manner analogous to the working of paper, which is covered by class B31 <del>—</del>. [4]</p>   |
|   | B29              | 2. | <p>In this class , the following term is used with the meaning indicated:</p> <ul style="list-style-type: none"> <li>• "plastics" means macromolecular compounds or compositions based on such compounds.</li> </ul>  |
|   |                  | 3. | <p>In this class , the following rules apply:</p> <p>a. The working of plastics is, as far as possible, classified primarily according to the particular shaping technique used, e.g. in subclass B29C <del>—</del>. [4]</p> <p><del>b. A product is not classified in this class unless it results from a technique which is covered by this class.—</del></p> <p>c. Classification according to production of particular articles in subclass B29D is restricted to:</p> <p>i. aspects which are characteristic for the production of a particular article, and not classifiable in subclass B29B <del>or</del> or B29C;</p> <p>ii. combined operations for making the particular article which are not fully classifiable in subclass B29C <del>—</del>. [4]</p> <p>d. <i>Products <u>per se</u> are not classified in this class. However, if a product is characterised by the way it is produced and not by its structure or composition, the production method should be classified in this class.</i> [2010.01]</p> |

## B29C

[Session: CE41, Project/Projet: C441]

	M	Title	<p>SHAPING OR JOINING OF PLASTICS ; SHAPING OF SUBSTANCES IN A PLASTIC STATE, IN GENERAL ; AFTER-TREATMENT OF THE SHAPED PRODUCTS, e.g. REPAIRING ( working in the manner of metal B23 ; grinding, polishing B24 ; cutting B26D, B26F ; making preforms B29B 11/00 ; <i>making laminated products by combining previously unconnected layers which become one product whose layers will remain together B32B 37/00-B32B 41/00</i> ) [4]</p>
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- |   |                  |    |  |
|---|------------------|----|--|
| M | Note after title | 1. | <p>Attention is drawn to Note (3) following the title of class B29. [4]</p>  |
|   | B29C             | 2. | <p><del>Layered products or laminating methods are further classified in subclass B32B.—</del>[4]</p>  |
|   |                  | 2. | <p>In this subclass :</p> <ul style="list-style-type: none"> <li>• repairing of articles made from plastics or substances in a plastic state, e.g. of articles shaped or produced by using techniques covered by this subclass or subclass B29D, is classified in group B29C 73/00;</li> <li>• component parts, details, accessories or auxiliary operations which are applicable to more than one moulding technique are classified in groups B29C 31/00-B29C 37/00;</li> <li>• component parts, details, accessories or auxiliary operations which are only applicable or only of use for one specific shaping technique are classified only in the relevant subgroups of groups B29C 39/00-B29C 71/00. [4,5]</li> </ul> |

B29D		[Session: IB20, Project/Projet: P104]	
	Note after title	Note(s)	
	B29D- 31/00	DEAD ENTRY	

[Session: CE41, Project/Projet: C441]			
M	Note after title	Attention is drawn to Note (3) following the title of class B29. [4]	
	B29D	2-	<del>Layered products or laminating methods are further classified in subclass B32B.—[8]</del>

[Session: IB20, Project/Projet: P104]			
	Note after title	1-	<del>Attention is drawn to Note (3) following the title of class B29.—[4]</del>
	B29D- 99/00	2-	<del>Layered products or laminating methods are further classified in subclass B32B.—[8]</del>
		In this subclass , it is desirable to add the indexing codes of subclass B29K. [4]	

[Session: CE41, Project/Projet: M099]			
D	31/00	(transferred to B29D 99/00)	
D	31/02	(transferred to B29D 33/00)	
D	31/50	(transferred to B29D 35/00)	
D	Note(s)		
	31/50		
	D	31/502	(transferred to B29D 35/02)
	D	31/505	(transferred to B29D 35/04)
	D	31/508	(transferred to B29D 35/06)
	D	31/51	(transferred to B29D 35/08)
	D	31/512	(transferred to B29D 35/10)
	D	31/515	(transferred to B29D 35/12)
	D	31/518	(transferred to B29D 35/14)
Sq180	N	33/00	Producing bushes for bearings [2010.01]
Sq190	N	35/00	Producing footwear [2010.01]
N	Note(s)	Note(s)	
	35/00	1. Classification is made in this group if the moulding technique is of interest. [2010.01] 2. The assembling of individual parts by mechanical joining is classified in subclass A43D, e.g. by gluing shoe parts A43D 25/00. [2010.01]	
	N	35/02	• made in one piece using a moulding technique, e.g. by injection moulding or casting [2010.01]
	N	35/04	• • having multilayered parts [2010.01]

	N	35/06	• having soles or heels formed and joined on to preformed uppers using a moulding technique, e.g. by injection moulding, pressing and vulcanising [2010.01]
	N	35/08	• • having multilayered parts [2010.01]
	N	35/10	• having preformed soles or heels joined on to preformed uppers using a moulding technique, e.g. by feeding or injecting plastics material between the parts to be joined [2010.01]
	N	35/12	• Producing parts thereof, e.g. soles, heels or uppers, by a moulding technique [2010.01]
	N	35/14	• • Multilayered parts [2010.01]
Sq200	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

## B32B

[Session: CE41, Project/Projet: C441]

- M Note after title B32B
- This subclass covers :
    - layered products comprising different kinds of material or layered products not characterised by the particular kind of material used;
    - a product similar to a layered product but comprising only material in the form of a sheet or network embedded in a mass of plastics or of physically-similar substances which mass penetrates the said sheet or network and lies on both sides of the latter (e.g. so that the sheet or network reinforces the plastics substance) provided that the embedded sheet or network extends coherently or connectedly over substantially the whole area of the product; thus the embedded sheet or network may be a fabric or a series of rods connected by cross wires. The manner of making such a product is, however, classified in this subclass only if it is essentially a process of building-up an assembly of layers of which at least one outer layer is preformed. If the embedded material comprises only a series of unconnected rods, the product is not classified in this subclass.
  - This subclass does not cover :
    - processes or apparatus used in, or in connection with, the production or treatment of any product, if the process or apparatus is solely applicable to and fully classifiable in a single other class or subclass for processes or apparatus, e.g. B05, ~~B29~~-B29C, B29D, B44D, C08J, C09J ~~or~~ C23;
    - compositions or preparation or treatment thereof, unless they are essentially restricted to layered products and cannot be fully classified in another class without ignoring this restriction;
    - etched metallic pattern on the surface of a printed circuit board ~~or~~. [3]
  - In this subclass, a film formed on a layer by spreading a substance thereon is not considered to constitute a layer itself if it serves only as an adhesive or its purpose is merely to finish a surface of a product.
  - In this subclass, the following terms or expressions are used with the meanings indicated:
    - "layer" is a sheet or strip or anything else having a small thickness relatively to its other dimensions which, together with at least one other layer, exists in a product, whether it pre-existed, e.g. as a separate sheet or strip, or was formed during the production of the layered product. It may or may not be homogeneous or cohesive; it may be an assembly of fibres or pieces of material. It may be discontinuous, e.g. in the form of a grating, honeycomb, or frame. It may or may not be in complete contact with the next layer, e.g. a corrugated layer against a flat layer;
    - "layered product" comprises at least two layers secured together. The term "secured" includes any method of uniting layers, e.g. needling, stitching, gluing, nailing, dovetailing or the interposition of an adhesive or adhesive

impregnated support. It may also be an intermediate stage in the production of an article which is not layered in its final form, e.g. a panel with a protective layer which is stripped off when the panel is placed in its position of use. The layers are preformed layers or layers formed in situ on a preformed layer and may consist of coherent solid materials, including honeycombs and other cellular materials or of non-coherent solid materials composed of assemblies of strands, strips, fibres, tiles or the like;

- "filamentary layer" means a layer of threads or filaments of any substance (e.g. wires) of more or less unlimited length placed in an orderly arrangement and secured together; it may be woven, knitted, braided, or netted, or formed of threads crossed or laid side and bonded together;
- "fibrous layer" means a random assembly of fibres or filaments, usually of limited length, e.g. felt, fleece; the fibres may or may not be interengaged or connected, e.g. by adhesive.

5. In groups B32B 1/00-B32B 33/00, at each level of indentation, in the absence of an indication to the contrary, classification is made in the first appropriate place.

6. ~~Layered products are classified in groups B32B 37/00 or B32B 38/00 if not characterised by their structure or composition.—[8]~~

6. *If a layered product is characterised by the way it is produced and not by its structure or composition, the production method should be classified in groups B32B 37/00 or B32B 38/00, or in subclass B29C, for example in groups B29C 45/16 or B29C 47/06. [2010.01]*

7. The classification of layered products is provided for in many classes, most of which are confined to a particular kind of material. However, in order that this subclass may provide a basis for making a complete search with respect to layered products, all relevant subject matter is classified in this subclass even though it may also be classified in other classes.

B43K			[Session: CE41, Project/Projet: M099]
Sq0	M	25/00	Attaching writing implements to wearing apparel or objects involving constructional changes of the <del>of the</del> implements ( protecting means, e.g. caps, B43K 23/08 ; <del>garment-holding devices A44B 24/00</del> ; fastening articles to wearing apparel A45F 5/02 )

B43M			[Session: CE41, Project/Projet: M099]
M	Subclass index		<u>Subclass Index</u>
			FIXING SEALS; INSERTING DOCUMENTS INTO, CLOSING, OR OPENING, 1/00; 3/00 , 5/00, 7/00
			ENVELOPES
			PAPER-WEIGHTS ; DEVICES FOR APPLYING LIQUIDS; STAMP DISPENSERS; 9/00 ; 11/00; 13/00 ; 15/00 <del> ; 17/00</del>
			DRAWING-PINS OR THUMB-TACKS <del> ; OTHER ACCESSORIES</del>
			<i>OTHER ACCESSORIES</i> 99/00
D	17/00		(transferred to B43M 99/00)
Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

B60F			[Session: CE41, Project/Projet: M099]
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	M	Title	VEHICLES FOR USE BOTH ON RAIL AND ON ROAD ; <del>AMPHIBIOUS OR LIKE VEHICLES ; CONVERTIBLE-VEHICLES</del> <i>VEHICLES CAPABLE OF TRAVELLING IN OR ON DIFFERENT MEDIA, e.g. AMPHIBIOUS VEHICLES</i> ( air-cushion vehicles B60V )
Sq20	M	5/00	Other <del>convertible-vehicles, i.e.</del> vehicles capable of travelling in <del>or on</del> <i>or on</i> different media ( vehicles having alternatively-usable runners and wheels B62B 13/18 ; <del>cycles convertible into other types of land-vehicles B62K 13/00 ; aircraft B64 ;</del> flying-boats or seaplanes <del>B64C</del> <i>B64C 35/00</i> )

B60G			[Session: CE41, Project/Projet: M099]
M	Subclass index	<u>Subclass Index</u>	
		RIGID SUSPENSION	1/00
		RESILIENT SUSPENSION	
		General structures	
		for single wheels ; single sets of tandem wheels; pivoted suspension arms and accessories therefor	3/00 ; 5/00; 7/00
		for rigid axle or axle housing for two or more wheels	9/00
		Characterised by arrangement , location, or kind of: springs; vibration-dampers; or combined springs and dampers	11/00 ; 13/00; 15/00
		Characterised by adjustment	17/00
		SUSPENSIONS WITH MEANS FOR SENSING GROUND UNEVENNESS	23/00
		INTERCONNECTED SYSTEMS FOR RESILIENTLY-SUSPENDED WHEELS	21/00
		<del>OTHER SUSPENSION ARRANGEMENTS-</del>	25/00
		<i>OTHER SUSPENSION ARRANGEMENTS</i>	99/00
D	25/00	(transferred to B60G 99/00)	
Sq200	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

B62B			[Session: IB20, Project/Projet: P101]
Sq90	M	11/00	Hand-propelled vehicles not otherwise provided for ( rider propulsion of vehicles B62M 1/00, <i>B62M 6/00</i> )

B62M			[Session: IB20, Project/Projet: P101]
M	Subclass index	<u>Subclass Index</u>	
		PROPULSION	
		Of wheeled vehicles by hand <del>or foot</del> , <i>foot or with additional souce of power</i> : kinds of	1/00; 3/00 , 5/00 ; <i>6/00</i>
		mechanisms; construction of propulsion cranks or levers	
		Of single-track vehicles by motor, characterised by position of engine	7/00
		Of sledges or the like	27/00
		Of wheeled vehicles or sledges, by ground-engaging means not otherwise provided for	29/00
		TRANSMISSIONS	
		Characterised by rigid mechanical parts thereof	
		chain or belt ; toothed or friction wheel; friction roller	9/00 ; 11/00; 13/00
		crankshaft or coupling- rods ; rotary shaft	15/00; 17/00

Characterised by non-mechanical or non-rigid parts thereof

19/00 , 21/00, 23/00

Gearing speed-change actuators

25/00

[Session: SC06, Project/Projet: A010]

M Guidance

Heading before

1/00 - 6/00

[Rider propulsion of wheeled vehicles](#)

Sq30	C	1/00	<b>Rider propulsion of wheeled vehicles ( rider propulsion with additional source of power B62M 6/00 ; propulsion by ground-engaging rods B62M 29/02 ) [1,2010.01]</b>
	C	1/10	• involving devices which enable the <i>mechanical</i> storing and releasing of energy occasionally, e.g. arrangement of flywheels [1,2010.01]

[Session: IB20, Project/Projet: P101]

	N	6/00	<b>Rider propulsion of wheeled vehicles with additional source of power, e.g. combustion engine or electric motor [2010.01]</b>
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[Session: SC06, Project/Projet: A010]

	N	Note(s) 6/00	Note(s) <i>In this main group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place [2010.01]</i>
	N	6/10	• Rider propelled cycles with auxiliary combustion engine [2010.01]
	N	6/15	• • Control or actuating devices therefor [2010.01]
	N	6/20	• • power-driven at crank shaft parts [2010.01]
	N	6/25	• • power-driven at axle parts [2010.01]
	N	6/30	• • power-driven at single endless flexible member, e.g. chain, between cycle crankshaft and wheel axle, the engine engaging the endless flexible member [2010.01]
	N	6/35	• • power-driven by friction rollers or gears engaging the ground wheel [2010.01]
	N	6/40	• Rider propelled cycles with auxiliary electric motor [2010.01]
	N	6/45	• • Control or actuating devices therefor [2010.01]
	N	6/50	• • • characterised by detectors or sensors, or arrangement thereof [2010.01]
	N	6/55	• • power-driven at crank shafts parts [2010.01]
	N	6/60	• • power-driven at axle parts [2010.01]
	N	6/65	• • • with axle and driving shaft arranged coaxially [2010.01]
	N	6/70	• • power-driven at single endless flexible member, e.g. chain, between cycle crankshaft and wheel axle, the motor engaging the endless flexible member [2010.01]
	N	6/75	• • power-driven by friction rollers or gears engaging the ground wheel [2010.01]
	N	6/80	• Accessories, e.g. power sources; Arrangements thereof [2010.01]

	N	6/85	• • Solar cells [2010.01]
	N	6/90	• • Batteries [2010.01]
Sq10	C	7/00	<del>Motorcycles or cycles with auxiliary engines</del> characterised by position of motor or engine ( rider propulsion with addition source of power, e.g. auxiliary combustion engine or electric motor B62M 6/00 ; frames characterised by position of engine ( <del>frames characterised by position of engine B62K 11/00 ; internal combustion engines per se F02B ; kick-starter mechanisms or the like F02N</del> B62K 11/00 ) [1,2010.01]

[Session: SC06, Project/Projet: A011]

	N	Note(s) 9/00	Note(s)  In this main group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place. [2010.01]
	N	9/121	• • • • • Rear derailleurs [2010.01]
	N	9/122	• • • • • electrically or fluid actuated; Controls thereof [2010.01]
	N	9/123	• • • • • changing gears automatically [2010.01]
	N	9/124	• • • • • Mechanisms for shifting laterally [2010.01]
	N	9/1242	• • • • • characterised by the linkage mechanisms [2010.01]
	N	9/1244	• • • • • limiting or positioning the movement [2010.01]
	N	9/1246	• • • • • using cams or plates [2010.01]
	N	9/1248	• • • • • characterised by the use of biasing means, e.g. springs; Arrangements thereof [2010.01]

[Session: IB20, Project/Projet: P102]

	N	9/125	• • • • • Mounting the derailleur on the frame [2010.01]
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[Session: SC06, Project/Projet: A011]

	N	9/126	• • • • • Chain guides; Mounting thereof [2010.01]
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[Session: IB20, Project/Projet: P102]

	N	9/127	• • • • • Mounting or guiding of cables [2010.01]
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[Session: SC06, Project/Projet: A011]

	N	9/128	• • • • • Accessories, e.g. protectors [2010.01]
	N	9/131	• • • • • Front derailleurs [2010.01]
	N	9/132	• • • • • electrically or fluid actuated; Controls thereof [2010.01]
	N	9/133	• • • • • changing gears automatically [2010.01]
	N	9/134	• • • • • Mechanisms for shifting laterally [2010.01]
	N	9/1342	• • • • • characterised by the linkage mechanisms [2010.01]
	N	9/1344	• • • • • limiting or positioning the movement [2010.01]



[Session: IB20, Project/Projet: P102]			
	N	9/1346	. . . . . using cams or plates [2010.01]
[Session: SC06, Project/Projet: A011]			
	N	9/1348	. . . . . characterised by the use of biasing means, e.g. springs; Arrangements thereof [2010.01]
[Session: IB20, Project/Projet: P102]			
	N	9/135	. . . . . Mounting the derailleur on the frame [2010.01]
[Session: SC06, Project/Projet: A011]			
	N	9/136	. . . . . Chain guides; Mounting thereof [2010.01]
[Session: IB20, Project/Projet: P102]			
	N	9/137	. . . . . Mounting or guiding of cables [2010.01]
[Session: SC06, Project/Projet: A011]			
	N	9/138	. . . . . Accessories, e.g. protectors [2010.01]
[Session: IB20, Project/Projet: P101]			
Sq110	M	11/00	Transmissions characterised by use of interengaging toothed wheels or frictionally-engaging wheels ( with roller engaging the periphery of ground wheel B62M 6/35, B62M 6/75, B62M 13/00 )
[Session: SC06, Project/Projet: A010]			
Sq100	C	13/00	Transmissions characterised by use of friction <del>roller</del> rollers engaging the periphery of the ground wheel ( for rider propelled cycles with additional source of power B62M 6/35, B62M 6/75 ) [1,2010.01]
	C	23/02	. characterised by the use of two or more dissimilar sources of power, e.g. <del>engine and pedal</del> transmissions for hybrid motorcycles ( transmissions for wheeled vehicles using rider propulsion with additional source of power B62M 6/00 ) [1,2010.01]
B63G [Session: CE41, Project/Projet: M099]			
	M	8/08	. Propulsion ( nuclear propulsion B63H 21/18 ; submerged exhausting apparatus F01N 7/42F01N 13/12 ; propulsion power plants or units <u>per se</u> , <u>see</u> the relevant classes )
B64C [Session: CE41, Project/Projet: M099]			

Sq300	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]
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B65D			[Session: CE41, Project/Projet: D081]
	M	1/32	Containers adapted to be temporarily deformed by external pressure to expel contents ( containers with disinfecting linings A61L 2/00 ; <del>liquid-sprayers B05B</del> -oil cans F16N 3/00 )
	M	33/01	Ventilation or draining of bags ( <del>connection of valves to inflatable elastic bodies B60C 29/00</del> )- [3]

[Session: CE41, Project/Projet: M706]			
M	Guidance	Heading before	Movable or hinged closure members for Closure members, other than those folded of paper and incorporated in or attached to the container, for opening of rigid or semi-rigid containers <del>or for</del> without destroying outer wall portions of the container itself, or of flexible containers presenting similar closing problems ; Arrangements or devices for preventing refilling of containers ; Parts of containers co-operating with closure members or characterised by the form of closure <del>member</del> members [3]
		39/00 - 55/00	

[Session: CE41, Project/Projet: D081]			
Sq360	M	41/00	Caps, e.g. crown caps, crown seals, i.e. members having parts arranged for engagement with the external periphery of a neck or wall defining a pouring opening or discharge aperture ; Protective cap-like covers for closure members, e.g. decorative covers of metal foil or paper ( B65D 45/00 <del>takes takes</del> precedence ; combinations of caps and protective cap-like covers B65D 51/18 ; making closures by working metal sheet B21D 51/44 ; <del>affixing labels B65C 3/06</del> )
Sq330	M	47/00	Closures with filling and discharging, or with discharging, devices ( dispensers for liquid soap A47K 5/12 ; desk equipment for applying liquid by contact with surfaces B43M 11/00 ; <del>fluid delivery valves in general F16K 21/00</del> )
	M	47/18	. . . for discharging drops ; Droppers ( <del>droppers in general B01L 3/00</del> ) -
Sq390	M	53/00	Sealing or packing elements ( <del>sealings in general F16J 15/00</del> ) ; Sealings formed by liquid or plastic material
	M	55/06	. . Deformable or tearable wires, strings, or strips ( containers specially constructed to be opened by tear-strips, strings or the like B65D 17/00 ; caps or cap-like closures with tear-strips B65D 41/32 ) ; Use of seals ( applying labels to bottles B65C 3/06, B65C 9/00 ; <del>seals per se G09F 3/00</del> )
Sq140	M	63/00	Flexible elongated elements, e.g. straps, for bundling or supporting articles ( <del>for supporting pipes, cables or protective tubing F16L 3/137</del> ) -
Sq150	M	65/00	Wrappers or flexible covers ; Packaging materials of special type or form ( wrappers or envelopes with shock-absorbing properties B65D 81/03 ; <del>layered products per se B32B</del> ; <del>materials per se, see the relevant classes</del> )
	M	79/02	. Arrangements or devices for indicating incorrect storage or transport ( <del>measuring devices G01</del> ) -
	M	83/06	. for dispensing powdered or granular material ( <del>spraying or atomising apparatus in general B05B</del> ) -
	M	83/14	. for delivery of liquid or semi-liquid contents by internal gaseous pressure, i.e. aerosol containers ( <del>spraying or atomising apparatus in general B05B</del> ; siphons, pumping of fluid by direct contact of another fluid F04F ; vessels for containing or storing compressed, liquefied, or solidified gases F17C) -
	M	90/18	. . Castors, rolls, or the like, e.g. detachable ( <del>castors in general B60B</del> ) - [3]
	M	90/32	. . Arrangements for preventing, or minimising the effect of, excessive or insufficient pressure ( <del>valves per se F16K</del> ) - [3]

	M	90/46	• Arrangements for carrying off, or preventing the formation of electrostatic charges <del>(-carrying-off,-or-preventing-the-formation-of-electrostatic-charges-in-general-H05F-)</del> [3]
	M	90/54	• Gates or closures ( for manholes B65D 90/10 <del>;-covers-or-similar-closure-members,-for-pressure-vessels-in-general-F16J-13/00;-valves-per-se-F16K-)</del> [3]

#### B65H

[Session: CE41, Project/Projet: M099]

- |   |       |   |
|---|-------|---|
| M | 75/34 | <ul style="list-style-type: none"> <li>• specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material provided for particular purposes, e.g. anchored hoses, power cables ( retractors for storing flexible hoses as accessories of dental work stands A61G 15/18 ; vehicle safety belt retractors B60R 22/34 ; hose-storing devices in apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles or portable containers <del>B67D 5/365</del> B67D 7/40 ; clothes-line supports D06F 53/00 ; spring drums for liftable blinds with horizontal lamellae E06B 9/322 ; spring drums or tape drums for roll-type closures or roller blinds E06B 9/56 ; hauling- or hoisting-chains with arrangements for holding electric cables, hoses or the like F16G 13/16 ; devices for guiding pipes, cables or protective tubing, between relatively movable points, e.g. movable channels, F16L 3/01 ; flexible rulers or tapes with scales G01B 3/10 ; electrical features of stored material, <u>see</u> the relevant subclasses, e.g. H02G ) [2,5]</li> </ul> |
|---|-------|---|

#### B67D

[Session: CE41, Project/Projet: M099]

	D	5/00	(transferred to B67D 99/00)
	D	5/01	(transferred to B67D 7/00)
	D	5/02	(transferred to B67D 7/02)
	D	5/04	(transferred to B67D 7/04)
	D	5/06	(transferred to B67D 7/06)
	D	5/08	(transferred to B67D 7/08)
	D	5/10	(transferred to B67D 7/10)
	D	5/12	(transferred to B67D 7/12)
	D	5/14	(transferred to B67D 7/14)
	D	5/16	(transferred to B67D 7/16)
	D	5/18	(transferred to B67D 7/18)
	D	5/20	(transferred to B67D 7/20)
	D	5/22	(transferred to B67D 7/22)
	D	5/24	(transferred to B67D 7/24)
	D	5/26	(transferred to B67D 7/26)
	D	5/28	(transferred to B67D 7/28)
	D	5/30	(transferred to B67D 7/30)
	D	5/32	(transferred to B67D 7/32)
	D	5/33	(transferred to B67D 7/34)
	D	5/34	(transferred to B67D 7/36)
	D	5/36	(transferred to B67D 7/38)

	D	5/365	(transferred to B67D 7/40)
	D	5/37	(transferred to B67D 7/42)
	D	5/371	(transferred to B67D 7/44)
	D	5/372	(transferred to B67D 7/46)
	D	5/373	(transferred to B67D 7/48)
	D	5/375	(transferred to B67D 7/50)
	D	5/377	(transferred to B67D 7/52)
	D	5/378	(transferred to B67D 7/54)
	D	5/38	(transferred to B67D 7/56)
	D	5/40	(transferred to B67D 7/58)
	D	5/42	(transferred to B67D 7/60)
	D	5/44	(transferred to B67D 7/62)
	D	5/46	(transferred to B67D 7/64)
	D	5/48	(transferred to B67D 7/66)
	D	5/50	(transferred to B67D 7/68)
	D	5/52	(transferred to B67D 7/70)
	D	5/54	(transferred to B67D 7/72)
	D	5/56	(transferred to B67D 7/74)
	D	5/58	(transferred to B67D 7/76)
	D	5/60	(transferred to B67D 7/78)
	D	5/62	(transferred to B67D 7/80)
	D	5/63	(transferred to B67D 7/82)
	D	5/64	(transferred to B67D 7/84)
	D	5/66	(transferred to B67D 7/86)
	D	5/68	(transferred to B67D 9/00)
	D	5/70	(transferred to B67D 9/02)
Sq20	N	7/00	<b>Apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles or into portable containers, e.g. for retail sale purposes</b> (general disposition of plant in stations for supplying fuel to vehicles B60S 5/02; for filling or emptying locomotive water tanks, e.g. water columns, B61K 11/00; for refuelling aircraft during flight B64D 39/00; liquid-handling ground installations specially adapted for fuelling stationary aircraft B64F 1/28) <b>[2010.01]</b>
	N	7/02	• for transferring liquids other than fuel or lubricants <b>[2010.01]</b>
	N	7/04	• for transferring fuels, lubricants or mixed fuels and lubricants <b>[2010.01]</b>
	N	7/06	• Details or accessories <b>[2010.01]</b>
	N	7/08	• • Arrangements of devices for controlling, indicating, metering or registering quantity or price of liquid transferred (arrangement of flow- or pressure-control valves B67D 7/36; computing, calculating, counting G06; coin-freed apparatus for dispensing fluids G07F 13/00; prepayment devices for metering liquids G07F 15/00) <b>[2010.01]</b>
	N	7/10	• • • operated by keys, push-buttons or cash registers <b>[2010.01]</b>

	N	7/12	. . . operated by movement of delivery hose or nozzle or by devices associated therewith [2010.01]
	N	7/14	. . . responsive to input of recorded programmed information, e.g. on punched cards [2010.01]
	N	7/16	. . . Arrangements of liquid meters [2010.01]
	N	7/18	. . . . of piston type [2010.01]
	N	7/20	. . . . of rotary type [2010.01]
	N	7/22	. . . Arrangements of indicators or registers (indicating or recording in fluid meters G01F 15/06) [2010.01]
	N	7/24	. . . . with means for producing or issuing a receipt or record of sale [2010.01]
	N	7/26	. . . . with resetting or zeroing means [2010.01]
	N	7/28	. . . with automatic means for reducing or intermittently interrupting flow before completion of delivery, e.g. to produce dribble feed [2010.01]
	N	7/30	. . . with means for predetermining quantity of liquid to be transferred (B67D 7/10, B67D 7/14 take precedence) [2010.01]
	N	7/32	. . Arrangements of safety or warning devices; Means for preventing unauthorised delivery of liquid [2010.01]
	N	7/34	. . . Means for preventing unauthorised delivery of liquid [2010.01]
	N	7/36	. . Arrangements of flow- or pressure-control valves (associated with nozzles B67D 7/42) [2010.01]
	N	7/38	. . Arrangements of hoses, e.g. operative connection with pump motor (hoses in general F16L 11/00) [2010.01]
	N	7/40	. . . Suspending, reeling or storing devices (supports for storing lengths of hoses, in general B65H 75/34) [2010.01]
	N	7/42	. . Filling nozzles [2010.01]
	N	7/44	. . . automatically closing [2010.01]
	N	7/46	. . . . when liquid in container to be filled reaches a predetermined level [2010.01]
	N	7/48	. . . . . by making use of air suction through an opening closed by the rising liquid [2010.01]
	N	7/50	. . . . and provided with an additional hand lever [2010.01]
	N	7/52	. . . . and provided with additional flow-controlling valve means [2010.01]
	N	7/54	. . . with means for preventing escape of liquid or vapour or for recovering escaped liquid or vapour (B67D 7/44 takes precedence) [2010.01]
	N	7/56	. . Arrangements of flow-indicators, e.g. transparent compartments, windows, rotary vanes (indicating or recording presence, absence or direction of movement G01P 13/00) [2010.01]
	N	7/58	. . Arrangements of pumps [2010.01]
	N	7/60	. . . manually operable [2010.01]
	N	7/62	. . . power operated [2010.01]
	N	7/64	. . . . of piston type [2010.01]
	N	7/66	. . . . of rotary type [2010.01]
	N	7/68	. . . submerged in storage tank or reservoir [2010.01]
	N	7/70	. . . of two or more pumps in series or parallel [2010.01]
	N	7/72	. . Devices for applying air or other gas pressure for forcing liquid to delivery point [2010.01]
	N	7/74	. . Devices for mixing two or more different liquids to be transferred (coin-free apparatus G07F 13/06) [2010.01]
	N	7/76	. . Arrangements of devices for purifying liquids to be transferred, e.g. of filters, of air or water separators [2010.01]
	N	7/78	. . Arrangements of storage tanks, reservoirs or pipe-lines [2010.01]
	N	7/80	. . Arrangements of heating or cooling devices for liquids to be transferred [2010.01]

	N	7/82	• • • Heating only [2010.01]
	N	7/84	• • Casings, cabinets or frameworks; Trolleys or like movable supports [2010.01]
	N	7/86	• • Illuminating arrangements [2010.01]
Sq30	N	9/00	Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment B63B 27/00) [2010.01]
	N	9/02	• using articulated pipes [2010.01]
Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

# B81C

[Session: CE41, Project/Projet: M099]

D 5/00 (transferred to B81C 99/00)

Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]
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# C01G

[Session: CE41, Project/Projet: M099]

M Subclass index Subclass Index

GENERAL METHODS OF PREPARATION	1/00
METALLIC COMPOUNDS, IN ALPHABETICAL ORDER OF THE SYMBOL FOR THE	
METAL	
Ag Silver	5/00
As Arsenic	28/00
Au Gold	7/00
Bi Bismuth	29/00
Cd Cadmium	11/00
Co Cobalt	51/00
Cr Chromium	37/00
Cu Copper	3/00
Fe Iron	49/00
Ga Gallium	15/00
Ge Germanium	17/00
Hf Hafnium	27/00
Hg Mercury	13/00
In Indium	15/00
Ir Iridium	55/00
Mn Manganese	45/00
Mo Molybdenum	39/00
Nb Niobium	33/00
Ni Nickel	53/00
Os Osmium	55/00
Pb Lead	21/00
Pd Palladium	55/00
Pt Platinum	55/00

Re Rhenium	47/00
Rh Rhodium	55/00
Ru Ruthenium	55/00
Sb Antimony	30/00
Sn Tin	19/00
Ta Tantalum	35/00
Ti Titanium	23/00
Tl Thallium	15/00
U Uranium	43/00
V Vanadium	31/00
W Tungsten	41/00
Zn Zinc	9/00
Zr Zirconium	25/00
COMPOUNDS OF TRANSURANIC ELEMENTS	56/00
COMPOUNDS OF METALS NOT COVERED BY THE PRECEDING GROUPS	57/00-99/00

D 57/00 (transferred to C01G 99/00)

Sq400	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]
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#### C07C

[Session: CE41, Project/Projet: M710]

Sq700	M	69/00	Esters of carboxylic acids ; Esters of carbonic or haloformic acids ( <del>ortho-esters, see the relevant groups, e.g. C07C-43/32</del> )
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#### C07F

[Session: CE41, Project/Projet: M702]

- |   |                  |    |   |
|---|------------------|----|---|
| M | Note after title | 1. | Attention is drawn to Note (3) after class C07, which defines the last place priority rule applied in the range of subclasses C07C-C07K and within these subclasses --. [8] |
|   | C07F             | 2. | Attention is drawn to Note (6) following the title of class C07 --. [2]   |
|   |                  | 3. | Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers. [2010.01]     |
|   |                  | 4. | Therapeutic activity of compounds is further classified in subclass A61P --. [7]  |
|   |                  | 5. | In this subclass , organic acid salts, alcoholates, phenates, chelates or mercaptides are classified as the parent compounds --. [2]  |

#### C08H

[Session: CE41, Project/Projet: M099]

	M	Title	DERIVATIVES OF NATURAL MACROMOLECULAR COMPOUNDS ( polysaccharides C08B ; natural rubber C08C ; natural resins or their derivatives C09F ; bituminous materials C10 )
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D 5/00 (transferred to C08H 99/00)

	D	5/02	(transferred to C08H 6/00)
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	D	5/04	(transferred to C08H 8/00)
Sq30	N	6/00	Macromolecular compounds derived from lignin [2010.01]
Sq40	N	8/00	Macromolecular compounds derived from lignocellulosic materials [2010.01]
Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

# C08L

[Session: CE41, Project/Projet: M104]

Sq120	M	43/00	Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal ; Compositions of derivatives of such polymers ( <del>of metal salts, e.g. phenolates, alcoholates, see the parent compounds</del> )- [2]
	M	55/02	• ABS <del>polymers</del> [Acrylonitrile-Butadiene-Styrene] polymers [2]
Sq260	M	59/00	Compositions of polyacetals ; Compositions of derivatives of polyacetals ( of polyvinyl acetals C08L 29/14 ) [2]
	M	89/04	• Products derived from waste materials, e.g. horn, hoof, or hair [2]
	M	91/08	• • Mineral <del>wax</del> waxes [2]
Sq470	M	95/00	Compositions of bituminous materials, e.g. asphalt, <del>tar</del> ,tar or pitch [2]
	M	97/02	• Lignocellulosic material, e.g. wood, straw, <del>bagasse</del> or bagasse [2]
	M	101/12	• characterised by physical features, e.g. anisotropy, <del>viscosity, electrical conductance</del> viscosity or electrical conductivity ( liquid crystal materials or compositions C09K 19/00 ) [6]

# C09D

[Session: CE41, Project/Projet: M105]

	M	Title	COATING COMPOSITIONS, e.g. PAINTS, <del>VARNISHES</del> ,VARNISHES OR LACQUERS ; FILLING PASTES ; CHEMICAL PAINT OR INK REMOVERS ; INKS ; CORRECTING FLUIDS ; WOODSTAINS ; PASTES OR SOLIDS FOR COLOURING OR PRINTING ; USE OF MATERIALS THEREFOR ( cosmetics A61K ; processes for applying liquids or other fluent materials to surfaces, in general, B05D ; staining wood B27K 5/02 ; glazes or vitreous enamels C03C ; organic macromolecular compounds C08 ; organic dyes or closely-related compounds for producing dyes, mordants or lakes, <u>per se</u> , C09B ; treatment of inorganic materials other than fibrous fillers used as pigments or fillers C09C ; natural resins, French polish, drying-oils, driers, turpentine, <u>per se</u> , C09F ; polishing compositions other than French polish, ski waxes C09G ; preparation of glue or gelatine C09H ; adhesives or use of materials as adhesives C09J ; <del>materials for sealing or packing joints or covers</del> C09K 3/10 ; <del>materials for stopping leaks</del> C09K 3/12 ; processes for the electrolytic or electrophoretic production of coatings C25D ; textile-treating compositions D06 ; paper-making D21 ; conductors, insulators H01B ) [5]
	M	5/14	• Paints containing biocides, e.g. fungicides, <del>insecticides</del> ,insecticides or pesticides ( C09D 5/16 <del>takes</del> takes precedence ) [6]
	M	5/20	• for coatings strippable as coherent films, e.g. <del>temporary coatings strippable as coherent films</del>
	M	5/36	• Pearl essence, e.g. <del>coatings containing platelet-like pigments for pearl lustre</del>
	M	5/38	• Paints containing free metal not provided for <del>above</del> -in groups C09D 5/00-C09D 5/36 [2]
Sq600	M	7/00	<del>Other features</del> Features of coating compositions, not provided for in group C09D 5/00 ( driers C09F 9/00 )



	M	101/10	• Esters of organic acids ( of both organic acids and inorganic acids C09D 101/20 ) [5]
	M	101/16	• Esters of inorganic acids ( of both organic acids and inorganic acids C09D 101/20 ) [5]
	M	133/06	• of esters containing only carbon, hydrogen, and oxygen, the oxygen atom being present only as part of the carboxyl radical [5]
	M	133/14	• of esters containing halogen, nitrogen, sulfur, or oxygen atoms in addition to the carboxy oxygen [5]
Sq190	M	143/00	Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal ; Coating compositions based on derivatives of such polymers ( <del>based on metal salt derivatives of polymers, e.g. phenolates, alcoholates, see the coating compositions based on the parent compounds</del> ) [5]
	M	155/02	• ABS polymers[Acrylonitrile-Butadiene-Styrene] polymers [5]
	M	189/04	• Products derived from waste materials, e.g. horn, hoof, hoof or hair [5]
	M	191/08	• Mineral waxwaxes [5]
Sq540	M	195/00	Coating compositions based on bituminous materials, e.g. asphalt, tar, tar or pitch [5]
	M	197/02	• Lignocellulosic material, e.g. wood, straw, straw or bagasse [5]

C09J

[Session: CE41, Project/Projet: M106]

	M	Title	ADHESIVES ; <del>ADHESIVE</del> NON-MECHANICAL ASPECTS OF ADHESIVE PROCESSES IN GENERAL ( <del>NON-MECHANICAL PART</del> ) ; ADHESIVE PROCESSES NOT PROVIDED FOR ELSEWHERE ; USE OF MATERIALS AS ADHESIVES ( surgical adhesives A61L 24/00 ; processes for applying liquids or other fluent materials to surfaces in general B05D ; adhesives on the basis of non specified organic macromolecular compounds used as bonding agents in layered products B32B ; organiclabelling fabrics or comparable materials or articles with deformable surface using adhesives and thermo-activatable adhesives respectively B65C 5/02, B65C 5/04 ; organic macromolecular compounds C08 ; production of multi-layer textile fabrics D06M 17/00preparation of glue or gelatine C09H ; adhesive labels, tag tickets or similar identification of indication means G09F 3/10 ) [5]
	M	1/02	• with water-solublecontaining water-soluble alkali silicates
Sq550	M	5/00	Adhesive processes in general ; Adhesive processes not provided for elsewhere, e.g. relating to primers ( devices for applying glue to surfaces to be joined B05, B27G 11/00 )
	M	5/04	• involving separate application of adhesive ingredients to the different surfaces to be joined
Sq10	M	9/00	Adhesives characterised by their physical nature or the effects produced, e.g. glue sticks ( C09J 7/00 takes precedence ) [5]
Sq560	M	11/00	<del>Other features</del> Features of adhesives not provided for in group C09J 9/00, e.g. additives [5]
	M	101/10	• Esters of organic acids ( of both organic acids and inorganic acids C09J 101/20 ) [5]
	M	101/16	• Esters of inorganic acids ( of both organic acids and inorganic acids C09J 101/20 ) [5]
	M	133/06	• of esters containing only carbon, hydrogen, and oxygen, the oxygen atom being present only as part of the carboxyl radical [5]
	M	133/14	• of esters containing halogen, nitrogen, sulfur, or oxygen atoms in addition to the carboxy oxygen [5]

Sq150	M	143/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal ; Adhesives based on derivatives of such polymers <del>(-based-on-metal-salt-derivatives-of-polymers,-e.g.-phenolates, alcoholates, <u>see</u> the adhesives based on the parent compounds)-</del> [5]
	M	155/02	• ABSABS [Acrylonitrile-Butadiene-Styrene] polymers [5]
	M	189/04	• Products derived from waste materials, e.g. horn, <del>hoef</del> , <i>hoof</i> or hair [5]
	M	191/08	• • Mineral <del>wax</del> waxes [5]
Sq500	M	195/00	Adhesives based on bituminous materials, e.g. asphalt, tar, <del>pitch</del> or <i>pitch</i> [5]
	M	197/02	• Lignocellulosic material, e.g. wood, <del>straw</del> , <i>straw</i> or bagasse [5]

#### C10N

[Session: CE41, Project/Projet: M702]

	M	Note(s)	1.	In this group , metals should be indexed according to their group of the Periodic Table <del>-</del> . [4]
		10/00	2.	<i>Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers. [2010.01]</i>

#### C12N

[Session: CE41, Project/Projet: C436]

D	5/06	(transferred to C12N 5/07)
N	5/07	• Animal cells or tissues [2010.01]
N	Note(s)	Note(s)
	5/07	The last place priority rule does not apply between the subgroups of this group. [2010.01]
N	5/071	• • Vertebrate cells or tissues, e.g. human cells or tissues [2010.01]
N	5/073	• • • Embryonic cells or tissues; Foetal cells or tissues [2010.01]
N	5/0735	• • • • Embryonic stem cells; Embryonic germ cells [2010.01]
N	5/074	• • • Adult stem cells [2010.01]
N	5/075	• • • Oocytes; Oogonia [2010.01]
N	5/076	• • • Sperm cells; Spermatogonia [2010.01]
N	5/077	• • • Mesenchymal cells, e.g. bone cells, cartilage cells, marrow stromal cells, fat cells or muscle cells [2010.01]
N	5/0775	• • • • Mesenchymal stem cells; Adipose-tissue derived stem cells [2010.01]
N	5/078	• • • Cells from blood or from the immune system [2010.01]
N	5/0781	• • • • B cells; Progenitors thereof [2010.01]
N	5/0783	• • • • T cells; NK cells; Progenitors of T or NK cells [2010.01]
N	5/0784	• • • • Dendritic cells; Progenitors thereof [2010.01]
N	5/0786	• • • • Monocytes; Macrophages [2010.01]
N	5/0787	• • • • Granulocytes, e.g. basophils, eosinophils, neutrophils or mast cells [2010.01]
N	5/0789	• • • • Stem cells; Multipotent progenitor cells [2010.01]
N	5/079	• • • Neural cells [2010.01]

N	5/0793	. . . . Neurons [2010.01]
N	5/0797	. . . . Stem cells; Progenitor cells [2010.01]
D	5/08	(transferred to C12N 5/071)
N	5/09	. Tumour cells [2010.01]
N	5/095	. . Stem cells; Progenitor cells [2010.01]
N	15/113	. . . Non-coding nucleic acids modulating the expression of genes, e.g. antisense oligonucleotides [2010.01]
N	15/115	. . . Aptamers, i.e. nucleic acids binding a target molecule specifically and with high affinity without hybridising therewith [2010.01]
N	15/117	. . . Nucleic acids having immunomodulatory properties, e.g. containing CpG-motifs [2010.01]
N	15/873	. . . Techniques for producing new embryos, e.g. nuclear transfer, manipulation of totipotent cells or production of chimeric embryos [2010.01]
N	15/877	. . . . Techniques for producing new mammalian cloned embryos [2010.01]

## C12S

[Session: IB20, Project/Projet: P104]

		Note after title C12S- 13/00	Note(s) DEAD ENTRY
		Note after title C12S- 99/00	<div>1- This subclass <del>covers</del> processes already provided for in:-</div> <div> <div>▲ Section A: A21, A23, A61L, A62D;-</div> <div>▲ Section B: B01D, B08B, B09C;-</div> <div>▲ Section C: C01, C05F, C08, C09B, C09H, C10G, C13, C14C, C21B, C22B, C23F, C23G;-</div> <div>▲ Section D: D01C, D01F, D06L, D06M, D06P, D21C, D21H;-</div> <div>▲ Section E: E21B;-</div> <div>▲ Section F: F24F, F24J, F26B;-</div> <div>▲ Section H: H01M;-</div> </div> <div>This subclass is intended to provide a basis for a complete search to be made with respect to the subject matter defined by the subclass title and, therefore, all relevant information is classified in this subclass, even if classified elsewhere.-</div> <div>2- Attention is drawn to Notes (2) and (3) following the title of class C12.—[5]</div> <div>3- In this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place.—[2009.01]</div> <div>4- The classification symbols of this subclass are not listed first when printed on patent documents.—[5]</div> <div>In this subclass, it is desirable to add the indexing codes of subclass C12R. [6]</div>

[Session: CE41, Project/Projet: M099]

D	13/00	(transferred to C12S 99/00)
Sq100	N	99/00
		Subject matter not provided for in other groups of this subclass [2010.01]

C14B			[Session: CE41, Project/Projet: D197]
	M	1/60	• Pasting processes ( pasting boards C14B 1/26 ; chemical <del>part</del> aspects C14C 7/00 )
	M	7/02	• Composite leathers ( with one or more laminae of plastics material <del>B32B</del> B32B 9/02 )
C14C			[Session: CE41, Project/Projet: D198]
	M	Title	CHEMICAL TREATMENT OF <del>HIDES, SKINS</del> SKINS, <del>HIDES</del> OR LEATHER, e.g. TANNING, IMPREGNATING, FINISHING ; APPARATUS THEREFOR ; COMPOSITIONS FOR TANNING ( dyeing or bleaching of leather or furs D06 )
			[Session: CE41, Project/Projet: D197]
Sq40	M	7/00	<del>Pasting processes (chemical part)</del> Chemical aspects of pasting processes
C22B			[Session: CE41, Project/Projet: D116]
Sq220	M	1/00	Preliminary treatment of ores or scrap ( <del>furnaces, sintering apparatus F27B</del> )
	U	Note(s) 3/00	When classifying in this group, the nature of any metal which is considered to represent information of interest for search may also be classified in the main groups only of C22B 11/00-C22B 25/00, in group C22B 19/34 or in any of groups C22B 26/00-C22B 61/00. This can, for example, be the case when it is considered of interest to enable searching for extraction of specific metals or their compounds. Such non-obligatory classification should be given as "additional information". [8]
	M	4/08	• Apparatus ( <del>electric heating elements H05B</del> ) [2]
C22C			[Session: CE41, Project/Projet: D115]
	M	Title	ALLOYS ( <del>hints C06C 15/00</del> ; treatment of alloys C21D, C22F )
Sq310	M	1/00	Making non-ferrous alloys ( <del>powder-metallurgical apparatus or processes, not specially modified for making alloys B22F</del> ; by electrothermic methods C22B 4/00 ; by electrolysis C25C )
	M	33/02	• by powder metallurgy ( <del>working metallic powder B22F</del> )
C22F			[Session: CE41, Project/Projet: D117]
Sq10	M	1/00	Changing the physical structure of non-ferrous metals or alloys by heat treatment or by hot or cold working ( <del>apparatus for mechanical working of metal B21, B23, B24</del> )
	M	1/02	• in inert or controlled atmosphere or vacuum ( <del>adjusting the composition of the atmosphere C24D 1/76</del> )
C23C			[Session: CE41, Project/Projet: C448]
	M	Title	COATING METALLIC MATERIAL ; COATING MATERIAL WITH METALLIC MATERIAL ; SURFACE TREATMENT OF METALLIC MATERIAL BY DIFFUSION INTO THE SURFACE, BY CHEMICAL CONVERSION OR SUBSTITUTION ; COATING BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL VAPOUR DEPOSITION, IN GENERAL ( applying liquids or other fluent materials to surfaces in general B05 ; making metal-coated products by extrusion B21C 23/22 ; covering with metal by connecting pre-existing layers to articles, <u>see</u> the relevant

			places, e.g. B21D 39/00, B23K ; working of metal by the action of a high concentration of electric current on a workpiece using an electrode B23H ; metallising of glass C03C ; metallising mortars, concrete, artificial stone, ceramics or natural stone C04B 41/00 ; paints, varnishes, <del>laquers</del> <i>lacquers</i> C09D ; enamelling of, or applying a vitreous layer to, metals C23D ; inhibiting corrosion of metallic material or incrustation in general C23F ; single-crystal film growth C30B ; <del>details of scanning-probe apparatus, in general G42B 21/00</del> <i>manufacture of semiconductor devices H01L</i> ; manufacture of <del>semiconductor devices H01L</del> ; <del>manufacture of</del> printed circuits H05K ) [4]
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C30B			[Session: CE41, Project/Projet: D141]
	M	13/20	• • by induction, e.g. hot wire technique ( C30B 13/18 <del>takes precedence</del> ; <del>induction coils H05B 6/36</del> <i>takes precedence</i> ) [3]
	M	13/28	• Controlling or regulating ( <del>controlling or regulating in general G05</del> ) [3]
Sq20	M	29/00	Single crystals or homogeneous polycrystalline material with defined structure characterised by the material or by their shape ( <del>alloys C22C</del> ) [3,5]

[Session: CE41, Project/Projet: M702]			
M	Note(s)	1.	In groups C30B 29/02-C30B 29/54, in the absence of an indication to the contrary, a material is classified in the last appropriate place <del>—</del> . [3]
	29/02- 29/54	2.	<i>Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers. [2010.01]</i>

[Session: CE41, Project/Projet: D141]			
	M	31/18	• • Controlling or regulating ( <del>controlling or regulating in general G05</del> ) [3]
Sq10	M	33/00	After-treatment of single crystals or homogeneous polycrystalline material with defined structure ( C30B 31/00 <del>takes precedence</del> ; <del>grinding, polishing B24</del> ; <del>mechanical fine working of gems, jewels, crystals B28D 5/00</del> <i>takes precedence</i> ) [3,5]

D01G			[Session: CE41, Project/Projet: M099]
M	Subclass index	<u>Subclass Index</u>  OPERATIONS BEFORE CARDING ; MACHINES THEREFOR  Opening fibre bales ; separating and sorting of fibres; opening or cleaning fibres 7/00 ; 5/00; 9/00  Severing of continuous filaments; roughening of fibres 1/00; 3/00  Recovery of fibres by breaking-up fibre-containing articles 11/00  Mixing of fibres , or of fibres with non-fibrous materials 13/00  CARDING OR SUBSEQUENT OPERATIONS; MACHINES THEREFOR  Feeding or conveying fibres for machines; lap-forming; lap-winding; lubricating fibres 23/00; 25/00 ; 27/00; 29/00  Carding and burr-crushing , combing 15/00, 19/00  SILK-DRESSING ; TREATMENT OF OAKUM 17/00; 35/00  COMBINATION OF MACHINES OR PROCESSES FOR CONTINUOUS PROCESSING 21/00  WARNING OR SAFETY DEVICES 31/00  HAND TOOLS FOR TREATMENT OF FIBRES 33/00	

~~OTHER PRELIMINARY TREATMENTS~~

37/00

OTHER PRELIMINARY TREATMENTS

99/00

D 37/00

(transferred to D01G 99/00)

Sq200	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]
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D06M

[Session: CE41, Project/Projet: M702]

M Note after title  
D06M

1. In each of the groups D06M 11/00-D06M 15/00, in the absence of an indication to the contrary, a substance is classified in the last appropriate place ~~is~~ [5]
2. In this subclass :
  - a. Within each one of main groups D06M 11/00-D06M 15/00, a mixture of substances is classified at least according to the essential ingredient. If more than one ingredient is essential, the mixture is classified, in the absence of an indication to the contrary, according to the essential ingredient which belongs to the last appropriate place in the sequence of substance.
  - b. Treatment by mixtures of substances covered by two or more of main groups D06M 11/00-D06M 15/00 ~~is~~ *is* classified in each appropriate main group ~~is~~ [5]
3. In this subclass , the treatment of textiles, not provided for elsewhere in class D06, is classified according to the following principles:
  - a. Treatment of textiles characterised by the treating agent in groups D06M 11/00-D06M 16/00.
  - b. Treatment of textiles characterised by the process in group D06M 23/00 ~~is~~ [5]
4. Processes using enzymes or micro-organisms in order to:
  - i. liberate , separate or purify a pre-existing compound or composition, or to
  - ii. treat textiles or clean solid surfaces of materialsare further classified in subclass C12S ~~is~~ [5]
5. *Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers. [2010.01]*

E01D

[Session: CE41, Project/Projet: D031]

Sq10	M	15/00	Movable or portable bridges ( <i>arrangement of ship-based outboard ramps or gangways B63B 27/14 ; loading ramps B65G 69/28</i> ) ; Floating bridges
	M	15/24	• Bridges or similar structures, based on land or on a fixed structure and designed to give access to ships or other floating structures ( <del>arrangement of ship-based ramps B63B 27/14 ; loading ramps B65G 69/28</del> ) [6]
Sq70	M	19/00	<del>Structural or constructional details</del> Details of bridges
	M	19/06	• Arrangement, construction, or bridging of expansion joints ( <del>sealing joints not restricted to expansion joints for bridges E04B 1/68</del> )
	M	19/10	• Railings ; Protectors against smoke or gases, e.g. of locomotives ; Maintenance travellers ; Fastening of pipes or cables to bridges ( <del>supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps, cleats, clips, brackets, F16L 3/00</del> )
M	19/12		• Grating or flooring for bridges ; Fastening railway sleepers or tracks to bridges ( <del>sleepers E01B 3/00</del> )

E21		[Session: , Project/Projet: ]
Note après le titre	Note(s)	
E21	n'existe que dans la version anglaise	

F01N		[Session: CE41, Project/Projet: M099]
D	7/00	(transferred to F01N 13/00, F01N 99/00)
	D	7/02 (transferred to F01N 13/02)
	D	7/04 (transferred to F01N 13/04)
	D	7/06 (transferred to F01N 13/06)
	D	7/08 (transferred to F01N 13/08)
	D	7/10 (transferred to F01N 13/10)
	D	7/12 (transferred to F01N 13/12)
	D	7/14 (transferred to F01N 13/14)
	D	7/16 (transferred to F01N 13/16)
	D	7/18 (transferred to F01N 13/18)
	D	7/20 (transferred to F01N 13/20)
Sq50	N	13/00 Exhaust or silencing apparatus characterised by constructional features [2010.01]
	N	13/02 • having two or more separate silencers in series [2010.01]
	N	13/04 • having two or more silencers in parallel, e.g. having interconnections for multi-cylinder engines [2010.01]
	N	13/06 • specially adapted for star-arrangement of cylinders, e.g. exhaust manifolds [2010.01]
	N	13/08 • Other arrangements or adaptations of exhaust conduits [2010.01]
	N	13/10 • • of exhaust manifolds [2010.01]
	N	13/12 • specially adapted for submerged exhausting [2010.01]
	N	13/14 • having thermal insulation [2010.01]
	N	13/16 • Selection of particular materials [2010.01]
	N	13/18 • Construction facilitating manufacture, assembly or disassembly [2010.01]
	N	13/20 • having flared outlets, e.g. of fish-tail shape [2010.01]
Sq100	N	99/00 Subject matter not provided for in other groups of this subclass [2010.01]

F02M		[Session: CE41, Project/Projet: M099]
	M	31/04 • • combustion-air or fuel-air mixture ( electrically F02M 31/12 ; by using heat from working cylinders or cylinder heads F02M 31/14 ; heating of combustion-air as an engine starting aid <del>F02N 17/04</del> F02N 19/04 ) [4]

F02N		[Session: CE41, Project/Projet: M099]
M	Subclass index	<u>Subclass Index</u>

			STARTING BY MUSCLE POWER	1/00 , 3/00, 5/00
			STARTING OTHERWISE	
			With mechanical energy storage	5/00
			By fluid motor ; by electric motor	7/00; 11/00
			By direct action in the working chamber: by fluid pressure ; by explosives	9/00; 13/00
			By other apparatus , details , accessories	15/00
			OTHER MEANS OR AIDS FOR STARTING	<del>17/00</del> 19/00, 99/00
	D	17/00	(transferred to F02N 99/00)	
	D	17/02	(transferred to F02N 19/02)	
	D	17/04	(transferred to F02N 19/04)	
	D	17/047	(transferred to F02N 19/06)	
	D	17/053	(transferred to F02N 19/08)	
	D	17/06	(transferred to F02N 19/10)	
	D	17/08	(transferred to F02N 19/00)	
Sq80	N	19/00	Starting aids for combustion engines, not otherwise provided for [2010.01]	
	N	19/02	<ul style="list-style-type: none"> <li>Aiding engine start by thermal means, e.g. using lighted wicks (using electrically-heated glowing plugs F02P 19/02) [2010.01]</li> </ul>	
	N	19/04	<ul style="list-style-type: none"> <li>by heating of fluids used in engines (heating of lubricants F01M 5/02) [2010.01]</li> </ul>	
	N	19/06	<ul style="list-style-type: none"> <li>by heating of combustion-air by flame generating means, e.g. flame glow-plugs [2010.01]</li> </ul>	
	N	19/08	<ul style="list-style-type: none"> <li>Arrangement thereof [2010.01]</li> </ul>	
	N	19/10	<ul style="list-style-type: none"> <li>by heating of engine coolants [2010.01]</li> </ul>	
Sq100	N	99/00	Subject matter not provided for in the other groups of this subclass [2010.01]	

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			F02P	[Session: CE41, Project/Projet: M099]
	M	21/04	<ul style="list-style-type: none"> <li>Burning-cartridges or like inserts being arranged in engine working chambers ( as starting aid <del>F02N 17/02</del>F02N 19/02 )</li> </ul>	

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			F03C	[Session: CE41, Project/Projet: M099]
	M	1/02	<ul style="list-style-type: none"> <li>with multiple cylinders, characterised by the number or arrangement of cylinders ( with movable cylinders F03C 1/22 ; of flexible-wall type <del>F03C 5/02</del>F03C 7/00 )</li> </ul>	
	D	5/00	(transferred to F03C 99/00)	
	D	5/02	(transferred to F03C 7/00)	
Sq30	N	7/00	Engines of flexible-wall type [2010.01]	
Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]	

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			F04B	[Session: CE41, Project/Projet: M099]
Sq80	M	13/00	Pumps specially modified to deliver fixed or variable measured quantities ( for transferring liquid from bulk storage	



			containers or reservoirs into vehicles or into portable containers <b>B67D 5/40B67D 7/58</b> )
	M	19/04	• Pumps for special use ( for transferring liquids from bulk storage containers or reservoirs into vehicles or into portable containers <b>B67D 5/40B67D 7/58</b> )

# F16G

[Session: CE41, Project/Projet: D103]

Sq40	M	9/00	Ropes or cables specially adapted for driving, or for being driven by, pulleys or other gearing elements <del>(ropes or cables in general D07B )</del>
Sq50	M	11/00	Means for fastening cables or ropes to one another or to other objects ( cable clamps for suspension bridge cables E01D 19/16 ) ; Caps or sleeves for fixing on cables or ropes ( attaching ropes or cables to lift cars or cages B66B 7/08, to winch drums or barrels B66D 1/34 ; <del>ground anchors E02D 5/00 ; anchoring devices for prestressed members E04C 5/00 ;</del> rope clamps in earth drilling E21B 19/12 )
	M	11/12	• Connections or attachments, e.g. turnbuckles, adapted for straining of cables, ropes, <del>or wire ( straining wire in general B21F 9/00 ) or wire</del>
	M	11/14	• Devices or coupling-pieces designed for easy formation of adjustable loops, e.g. choker hooks ; Hooks or eyes with integral parts designed to facilitate quick attachment to cables or ropes at any point, e.g. by forming loops <del>(crane hooks B66C 1/34 ; hooks or eyes in general F16B 45/00 )</del>
	M	13/02	• Driving-chains <del>( specially adapted to gearings with variable gear-ratio F16H 9/00 )</del>
Sq60	M	17/00	Hooks as integral parts of chains ( hooks for cranes B66C 1/34 ; <del>hooks in general F16B 45/00</del> )

# F16H

[Session: IB20, Project/Projet: P101]

C	57/04	• Features relating to lubrication or cooling ( <i>control of lubrication or cooling in hydrostatic gearing F16H 61/4165</i> ) [1,2010.01]
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[Session: SC07, Project/Projet: A015]

C	61/12	• Detecting malfunction or potential malfunction, e.g. fail safe ( <i>in control of hydrostatic gearing F16H 61/4192</i> ) [5,2010.01]
C	61/40	• • hydrostatic ( involving modification of the gearing F16H 39/02, F16H 39/04 ) [5,2010.01]

	N	61/4008	• • • Control of circuit pressure [2010.01]
	N	61/4017	• • • • Control of high pressure, e.g. avoiding excess pressure by a relief valve [2010.01]
	N	61/4026	• • • • Control of low pressure [2010.01]
	N	61/4035	• • • Control of circuit flow [2010.01]
	N	61/4043	• • • Control of a bypass valve [2010.01]
	N	61/4052	• • • • by using a variable restriction, e.g. an orifice valve [2010.01]
	N	61/4061	• • • Control related to directional control valves, e.g. change-over valves, for crossing the feeding conduits (forward reverse switching by using swash plate F16H 61/438) [2010.01]
	N	61/4069	• • • Valves related to the control of neutral, e.g. shut off valves (zero tilt rotation holding means F16H 61/439) [2010.01]
	N	61/4078	• • • Fluid exchange between hydrostatic circuits and external sources or consumers [2010.01]

[Session: IB20, Project/Projet: P102]

	N	61/4096	. . . . with pressure accumulators [2010.01]
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[Session: SC07, Project/Projet: A015]

	N	61/4104	. . . . Flushing, e.g. by using flushing valves or by connection to exhaust [2010.01]
	N	61/4131	. . . . Fluid exchange by aspiration from reservoirs, e.g. sump [2010.01]
	N	61/4139	. . . . Replenishing or scavenging pumps, e.g. auxiliary charge pumps [2010.01]
	N	61/4148	. . . . Open loop circuits [2010.01]
	N	61/4157	. . . . Control of braking, e.g. preventing pump over-speeding when motor acts as a pump [2010.01]
	N	61/4165	. . . . Control of cooling or lubricating [2010.01]
	N	61/4174	. . . . Control of venting, e.g. removing trapped air [2010.01]
	N	61/4183	. . . . Preventing or reducing vibrations or noise, e.g. avoiding cavitations [2010.01]
	N	61/4192	. . . . Detecting malfunction or potential malfunction, e.g. fail safe [2010.01]
	C	61/42	. . . . involving adjustment of a pump or motor with adjustable output or capacity [5,2010.01]
	N	61/421	. . . . Motor capacity control by electro-hydraulic control means, e.g. using solenoid valves [2010.01]
	N	61/423	. . . . Motor capacity control by fluid pressure control means [2010.01]
	N	61/425	. . . . Motor capacity control by electric actuators [2010.01]
	N	61/427	. . . . Motor capacity control by mechanical control means, e.g. by levers or pedals [2010.01]
	N	61/431	. . . . Pump capacity control by electro-hydraulic control means, e.g. using solenoid valve [2010.01]
	N	61/433	. . . . Pump capacity control by fluid pressure control means [2010.01]
	N	61/435	. . . . Pump capacity control by electric actuators [2010.01]
	N	61/437	. . . . Pump capacity control by mechanical control means, e.g. by levers or pedals [2010.01]
	N	61/438	. . . . Control of forward-reverse switching, e.g. control of the swash plate causing discharge in two directions (using a directional control valve F16H 61/4061) [2010.01]
	N	61/439	. . . . Control of the neutral position, e.g. by zero tilt rotation holding means (using a neutral valve or a shutoff valve F16H 61/4069) [2010.01]
	M	61/44	. . . . <del>by varying the number of</del> with more than one pump or motor <del>units</del> unit in operation [5]
	N	61/444	. . . . by changing the number of pump or motor units in operation [2010.01]
	N	61/448	. . . . Control circuits for tandem pumps or motors [2010.01]
	N	61/452	. . . . Selectively controlling multiple pumps or motors, e.g. switching between series or parallel [2010.01]
	N	61/456	. . . . Control of the balance of torque or speed between pumps or motors (hydrostatic differentials F16H 48/18) [2010.01]
	C	61/46	. . . . Automatic regulation in accordance with output requirements <del>(servomotors G05B)</del> [5,2010.01]
	N	61/462	. . . . for achieving a target speed ratio [2010.01]
	N	61/465	. . . . for achieving a target input speed [2010.01]
	N	61/468	. . . . for achieving a target input torque [2010.01]
	N	61/47	. . . . for achieving a target output speed [2010.01]
	N	61/472	. . . . for achieving a target output torque [2010.01]

	N	61/475	. . . for achieving a target power, e.g. input power or output power [2010.01]
	N	61/478	. . . for preventing overload, e.g. high pressure limitation [2010.01]

F16L		[Session: IB20, Project/Projet: P104]	
M	Note after title	1.	In this subclass , the following terms are used with the meanings indicated:
	F16L		<ul style="list-style-type: none"> <li>• "pipe" means a conduit of closed cross-section, which is specially adapted to convey fluids, materials or objects;</li> <li>• "hose" means a pipe, as defined above, which has flexibility as an essential characteristic -. [5]</li> </ul>
		2.	Attention is drawn to the following places:
		A61M 39/00	Tube connectors, tube couplings or branch units, specially adapted for medical use
		B05B 1/20	Perforated pipes
		B63B 35/03	Pipe-laying vessels
		B64D 39/04	Adaptation of hose constructions for refuelling aircraft during flight
		<del>B67D 5/36</del>	Arrangements of hoses in apparatus for transferring liquids, e.g. fuel, from bulk
		B67D 7/38	to vehicles or portable containers
		E01D 19/10	Fastening of pipes or cables to bridges
		E03B	Water supply installations
		E03D 11/17	Means for connecting water-closet bowls to the flushing pipe
		E03D 11/18	Siphons for water-closets
		E03F 3/04	Pipes or fittings specially adapted to sewers
		E04D 13/08	Down pipes for roof drainage ; Clamping means therefor
		E04F 17/00	Vertical ducts, channels in buildings , e .g. chimneys
		E21F 1/04	Air ducts for ventilation of mines or tunnels; Connections therefor
		E21F 17/02	Suspension devices for tubes or the like in mines or tunnels
		F01N	Gas flow silencers or exhaust apparatus for machines or engines
		F16N 21/00	Conduits , junctions for lubrication systems
		F17C 3/02	Thermal insulation of vessels not under pressure for storing liquified or solidified gases, e.g. Dewar flask
		F22B 37/10	Water tubes of steam boilers
		F23J 13/04	Joints , connections for chimneys or flues
		F24H 9/12	Connecting circulation pipes to heaters
		F28F 9/04	Arrangements for sealing elements into header boxes or end plates of heat-exchangers
		G21C 15/22	Structural association of coolant tubes with headers or other pipes in nuclear reactors

H02G 3/04	Protective tubing or conduits for electric cables	
H02G 3/30	Installations of electric cables or lines on walls, floors or <del>ceilings</del> -ceilings	[7]
H02G 3/36	Installations of electric cables or lines in walls, floors or <del>ceilings</del> -ceilings	[7]

F17D			[Session: CE41, Project/Projet: M099]
Sq20	M	1/00	Pipe-line systems ( conveying articles or materials through a pipe-line by means of a fluid carrier B65G 51/00, B65G 53/00 ; dispensing, delivering or transferring liquids B67D ; <del>special</del> apparatus or devices for transferring liquids from bulk storage containers or reservoirs into vehicles or <del>boats or vice versa, e.g. loading or unloading vehicles or portable containers B67D 5/00</del> into portable containers, e.g. for retail sale purposes, B67D 7/00 ; conveying material which has been excavated by a dredger or soil shifter through a pipe-line E02F 7/10 ; sewer pipe-line systems E03F 3/00 ; thermal insulation of pipe-lines F16L 59/00 ; central heating systems F24D ) [2]

F21K			[Session: CE41, Project/Projet: M099]
	D	7/00	(transferred to F21K 99/00)
Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

F21S			[Session: CE41, Project/Projet: D055]
	M	8/10	• specially adapted for vehicles ( <del>arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B60Q</del> ) - [7]
Sq70	M	11/00	Non-electric lighting devices or systems using daylight ( <del>windows or the like E06B</del> ) -

F21V			[Session: CE41, Project/Projet: D055]
	M	7/20	• • specially adapted for facilitating cooling, e.g. with fins ( <del>cooling by other means, e.g. fluid, F21V 29/00</del> ) - [1,7]
Sq50	M	13/00	Producing particular characteristics or distribution of the light emitted by means of a combination of elements specified in two or more of main groups F21V 1/00-F21V 11/00 ( <del>by means of a combination of two or more elements covered by a single one of main groups F21V 1/00-F21V 11/00, see the relevant group</del> ; changing the characteristics or distribution of the light emitted by adjustment of parts F21V 14/00 ) [1,7]
	M	15/04	• Resilient mountings, e.g. shock-absorbers ( <del>in general F16F 15/04</del> ) -
Sq180	M	21/00	Supporting, suspending, or attaching arrangements for lighting devices ( F21V 17/00, F21V 19/00 <del>take precedence</del> ; <del>arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B60Q</del> ; <del>stands for supporting apparatus or articles in general F16M 11/00</del> <del>take precedence</del> ) ; Hand grips [1,7]
	M	21/10	• Pendants, arms, or standards ; Fixing lighting devices to pendants, arms, or standards ( adjustable mounting F21V 21/14 ; <del>construction of posts not peculiar to use with lighting devices E04H 12/00</del> )
Sq150	M	23/00	Arrangement of electric circuit elements in or on lighting devices ( <del>electric circuits per se H05B 39/00</del> ) -
Sq0	M	25/00	Safety devices structurally associated with lighting devices ( gas-tight or water-tight arrangements F21V 31/00 ; <del>in general F16P</del> ; <del>protective circuit arrangements per se H02H 7/00</del> )

Sq160	M	27/00	Cable-stowing arrangements structurally associated with lighting devices, e.g. reels ( <del>storing lengths of cable in general B65H</del> )
Sq20	M	29/00	Cooling or heating arrangements ( <i>reflectors specially adapted for cooling F21V 7/20</i> ; cooling of air-treatment systems with air-flow over lighting fixtures F24F 3/056 ; lighting fixtures combined with outlets for air-treatment systems F24F 13/078 ; cooling of projectors G03B 21/16 ) [1,7]

F23D		[Session: CE41, Project/Projet: M099]	
M	Subclass index	<u>Subclass Index</u>	
		BURNERS FOR PULVERULENT FUEL	1/00
		BURNERS FOR COMBUSTION OF A LIQUID	
		Using capillary action	3/00
		Using fuel evaporation ; direct spraying action	5/00; 11/00
		Using fuel impingement on a surface	7/00, 9/00
		BURNERS FOR COMBUSTION OF A GAS	14/00
		BURNERS FOR COMBUSTION OF GASEOUS OR LIQUID OR PULVERULENT FUEL	17/00
		<del>OTHER BURNERS</del>	21/00
		ASSEMBLIES OF TWO OR MORE BURNERS	23/00
		<i>OTHER BURNERS</i>	99/00
D	21/00	(transferred to F23D 99/00)	

[Session: IB20, Project/Projet: P104]			
	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

F23G		[Session: CE41, Project/Projet: M102]	
	M	Title	CREMATION FURNACES ; CONSUMING WASTE <i>OR LOW GRADE FUELS</i> BY COMBUSTION
D	Note after title		
	F23G		
M	Subclass index	<u>Subclass Index</u>	
		<del>CREMATION FURNACES</del> <i>CREMATION</i>	1/00
		CONSUMING WASTE <i>OR LOW-GRADE FUELS</i> BY COMBUSTION	
		Processes ; Functional types of apparatus	5/00
		Adaptation for specific waste or fuels	7/00
		Details ; Accessories	5/44
		Control or safety arrangements	5/50
Sq0	M	1/00	<del>Furnaces</del> <i>Methods or apparatus specially adapted</i> for cremation of human or animal carcasses
Sq20	M	5/00	<del>Incineration of waste ; Incinerator constructions ; Details, accessories or control therefor</del> <i>Methods or apparatus, e.g. incinerators, specially adapted for combustion of waste or low-grade fuels</i> [4]
M	5/02	• <del>with</del> <i>including</i> pretreatment [4]	

M	5/027	<ul style="list-style-type: none"><li>• pyrolysing or gasifying <del>stage</del>-( pyrolysis of sludge C02F 11/00 ; <i>destructive distillation of carbonaceous materials C10B 53/00</i> ) [4]</li></ul>	
M	5/08	<ul style="list-style-type: none"><li>• <del>having</del><i>including</i> supplementary heating [4]</li></ul>	
M	5/10	<ul style="list-style-type: none"><li>• <del>electric</del><i>using electric means</i> [4]</li></ul>	
M	5/20	<ul style="list-style-type: none"><li>• <del>having-rotating</del><i>with combustion in rotating</i> or oscillating drums [4]</li></ul>	
M	5/24	<ul style="list-style-type: none"><li>• <del>having</del><i>with combustion in</i> a vertical, substantially cylindrical, combustion chamber [4]</li></ul>	
M	5/30	<ul style="list-style-type: none"><li>• <del>having</del><i>with combustion in</i> a fluidised bed [4]</li></ul>	
M	5/32	<ul style="list-style-type: none"><li>• <del>the waste-being-subjected</del><i>in which the waste or low-grade fuel is subjected</i> to a whirling movement, e.g. cyclonic incinerators [4]</li></ul>	
M	5/34	<ul style="list-style-type: none"><li>• <del>the waste-being</del><i>in which the waste or low-grade fuel is</i> burnt in a pit or arranged in a heap for combustion [4]</li></ul>	
M	5/36	<ul style="list-style-type: none"><li>• <del>having-a</del><i>with combustion in a</i> conical combustion chamber, e.g. "teepee" incinerators ( F23G 5/22-<del>takes</del> <i>takes</i> precedence ) [4]</li></ul>	
M	5/38	<ul style="list-style-type: none"><li>• <del>Multi-hearth</del><i>having multi-hearth</i> arrangements [4]</li></ul>	
M	5/40	<ul style="list-style-type: none"><li>• Portable or mobile <del>incinerators</del><i>apparatus</i> [4]</li></ul>	
Sq10	M	7/00	<div><del>Incinerators or other apparatus specially adapted for consuming</del><i>Methods or apparatus, e.g. incinerators, specially adapted for combustion of</i> specific waste or low grade fuels, e.g. chemicals ( F23G 1/00-<del>takes</del> <i>takes</i> precedence ; incinerator closets A47K 11/02 ; <i>oxidation of sludge C02F 11/06</i> ; incinerating radioactive waste G21F 9/00 ) [4,8]</div>
M	7/06	<ul style="list-style-type: none"><li>• of waste gases or noxious gases, e.g. exhaust gases ( <i>exhaust apparatus for engines with means for rendering the exhaust innocuous, e.g. by thermal or catalytic conversion, F01N 3/08</i> ; <i>combustion</i> of uncombusted material from primary combustion within apparatus for combustion of solid or fluent fuel F23B, F23C ) [4]</li></ul>	
M	7/14	<ul style="list-style-type: none"><li>• of contaminated soil, e.g. <i>soil contaminated</i> by oil [4]</li></ul>	

## F23M

[Session: CE41, Project/Projet: M099]

	D	13/00	(transferred to F23M 99/00)
Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

## F27D

[Session: CE41, Project/Projet: M099]

M	Subclass index	<u>Subclass Index</u>
		CONSTRUCTIONAL FEATURES 1/00
		HANDLING AND SUPPORTING CHARGE 3/00 , 5/00, 15/00
		PREHEATING CHARGE; COOLING; USING WASTE HEAT OR GASES 13/00; 9/00 , 15/02; 17/00
		ARRANGEMENTS OF ELECTRIC HEATING ELEMENTS 11/00
		ARRANGEMENTS OF CONTROL AND SAFETY DEVICES 19/00, 21/00
		OTHER FEATURES; OTHER DETAILS 7/00; <del>23/00-25/00</del> , 27/00, 99/00
D	23/00	(transferred to F27D 99/00)
	D	23/02 (transferred to F27D 25/00)
	D	23/04 (transferred to F27D 27/00)
Sq110	N	25/00 <b>Devices for removing incrustations [2010.01]</b>

Sq120	N	27/00	<i>Stirring devices for molten material (F27D 3/14 takes precedence)</i> [2010.01]
Sq200	N	99/00	<i>Subject matter not provided for in other groups of this subclass</i> [2010.01]

G01F			[Session: CE41, Project/Projet: M099]
	M	Title	MEASURING VOLUME, VOLUME FLOW, MASS FLOW, OR LIQUID LEVEL ; METERING BY VOLUME ( milk flow sensing devices in milking machines or devices A01J 5/01 ; measuring or recording blood flow A61B 5/02, A61B 8/06 ; metering media to the human body A61M 5/168 ; burettes or pipettes B01L 3/02 ; arrangements of liquid volume meters or volume-flow meters in liquid-delivering apparatus, e.g. for retail sale purposes, <del>B67D 5/46</del> <i>B67D 7/16</i> ; pumps, fluid motors, details common to measuring or metering devices and pumps or fluid motors F01-F04 ; locating, determining distance or velocity using reflection or reradiation of radio waves, analogous arrangements using other waves G01S ; systems for ratio control G05D 11/00 ) [2,5]

G01L			[Session: CE41, Project/Projet: C448]
	M	Title	MEASURING FORCE, STRESS, TORQUE, WORK, MECHANICAL POWER, MECHANICAL EFFICIENCY, OR FLUID PRESSURE ( methods or devices for measuring specially adapted for metal-rolling mills B21B 38/00 ; sensing pressure changes for compensating measurements of other variables or for compensating readings of instruments for variations in pressure, <del>see-see</del> G01D or other relevant subclasses for the variable measured ; weighing G01G ; <del>scanning-probe techniques using atomic force microscopy G01N 13/46</del> ; <del>converting</del> <i>converting</i> a pattern of forces into electrical signals G06K 11/00 ) [4]

G01N			[Session: CE41, Project/Projet: C448]
Sq20	M	13/00	Investigating surface or boundary effects, e.g. wetting power ; Investigating diffusion effects ; Analysing materials by determining surface, boundary, or diffusion effects ; <del>Investigating or analysing surface structures in atomic ranges</del> ( <i>scanning-probe techniques or apparatus G01Q</i> ) [1,7]
	D	13/10	(transferred to G01Q 10/00-G01Q 90/00)
	D	13/12	(transferred to G01Q 60/02, G01Q 60/10)
	D	13/14	(transferred to G01Q 60/02, G01Q 60/18)
	D	13/16	(transferred to G01Q 60/02, G01Q 60/24)
	D	13/18	(transferred to G01Q 60/02, G01Q 60/44)
	D	13/20	(transferred to G01Q 60/02, G01Q 60/46)
	D	13/22	(transferred to G01Q 60/02, G01Q 60/50)
	D	13/24	(transferred to G01Q 60/02, G01Q 60/60)

G01Q			[Session: CE41, Project/Projet: C448]
	N	Title	<b>SCANNING-PROBE TECHNIQUES OR APPARATUS; APPLICATIONS OF SCANNING-PROBE TECHNIQUES, e.g. SCANNING-PROBE MICROSCOPY [SPM]</b> [2010.01]
	N	Note after title	Note(s)
		G01Q	

In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place. [2010.01]

Sq10	N	10/00	Scanning or positioning arrangements, i.e. arrangements for actively controlling the movement or position of the probe [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	10/02	• Coarse scanning or positioning [2010.01]
	N	10/04	• Fine scanning or positioning [2010.01]
	N	10/06	• • Circuits or algorithms therefor [2010.01]

[Session: CE41, Project/Projet: C448]

Sq20	N	20/00	Monitoring the movement or position of the probe [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	20/02	• by optical means [2010.01]
	N	20/04	• Self-detecting probes, i.e. wherein the probe itself generates a signal representative of its position, e.g. piezo-electric gauge [2010.01]

[Session: CE41, Project/Projet: C448]

Sq30	N	30/00	Auxiliary means serving to assist or improve the scanning probe techniques or apparatus, e.g. display or data processing devices [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	30/02	• Non-SPM analysing devices, e.g. SEM [Scanning Electron Microscope], spectrometer or optical microscope [2010.01]
	N	30/04	• Display or data processing devices [2010.01]
	N	30/06	• • for error compensation [2010.01]
	N	30/08	• Means for establishing or regulating a desired environmental condition within a sample chamber [2010.01]
	N	30/10	• • Thermal environment [2010.01]
	N	30/12	• • Fluid environment [2010.01]
	N	30/14	• • • Liquid environment [2010.01]
	N	30/16	• • Vacuum environment [2010.01]
	N	30/18	• Means for protecting or isolating the interior of a sample chamber from external environmental conditions or influences, e.g. vibrations or electromagnetic fields [2010.01]
	N	30/20	• Sample handling devices or methods [2010.01]

[Session: CE41, Project/Projet: C448]



Sq40	N	40/00	Calibration, e.g. of probes [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	40/02	• Calibration standards or methods of fabrication thereof [2010.01]
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[Session: CE41, Project/Projet: C448]

Sq60	N	60/00	Particular types of SPM [Scanning-Probe Microscopy] or apparatus therefor; Essential components thereof [2010.01]
	N	60/02	• Multiple-type SPM, i.e. involving two or more SPM techniques [2010.01]

[Session: SC06, Project/Projet: A007]

	N	60/04	• • STM [Scanning Tunnelling Microscopy] combined with AFM [Atomic Force Microscopy] [2010.01]
	N	60/06	• • SNOM [Scanning Near-field Optical Microscopy] combined with AFM [Atomic Force Microscopy] [2010.01]
	N	60/08	• • MFM [Magnetic Force Microscopy] combined with AFM [Atomic Force Microscopy] [2010.01]

[Session: CE41, Project/Projet: C448]

N	60/10	• STM [Scanning Tunnelling Microscopy] or apparatus therefor, e.g. STM probes [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	60/12	• • STS [Scanning Tunnelling Spectroscopy] [2010.01]
	N	60/14	• • STP [Scanning Tunnelling Potentiometry] [2010.01]
	N	60/16	• • Probes, their manufacture or their related instrumentation, e.g. holders [2010.01]

[Session: CE41, Project/Projet: C448]

N	60/18	• SNOM [Scanning Near-Field Optical Microscopy] or apparatus therefor, e.g. SNOM probes [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	60/20	• • Fluorescence [2010.01]
	N	60/22	• • Probes, their manufacture or their related instrumentation, e.g. holders [2010.01]

[Session: CE41, Project/Projet: C448]

N	60/24	• AFM [Atomic Force Microscopy] or apparatus therefor, e.g. AFM probes [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	60/26	• • Friction force microscopy [2010.01]
	N	60/28	• • Adhesion force microscopy [2010.01]

	N	60/30	• • Scanning potential microscopy [2010.01]
	N	60/32	• • AC mode [2010.01]
	N	60/34	• • • Tapping mode [2010.01]
	N	60/36	• • DC mode [2010.01]
	N	60/38	• • Probes, their manufacture or their related instrumentation, e.g. holders [2010.01]
	N	60/40	• • • Conductive probes [2010.01]
	N	60/42	• • • Functionalisation [2010.01]

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[Session: CE41, Project/Projet: C448]

N	60/44	• SICM [Scanning Ion-Conductance Microscopy] or apparatus therefor, e.g. SICM probes [2010.01]
N	60/46	• SCM [Scanning Capacitance Microscopy] or apparatus therefor, e.g. SCM probes [2010.01]

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[Session: SC06, Project/Projet: A007]

	N	60/48	• • Probes, their manufacture or their related instrumentation, e.g. holders [2010.01]
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[Session: CE41, Project/Projet: C448]

N	60/50	• MFM [Magnetic Force Microscopy] or apparatus therefor, e.g. MFM probes [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	60/52	• • Resonance [2010.01]
	N	60/54	• • Probes, their manufacture or their related instrumentation, e.g. holders [2010.01]
	N	60/56	• • • Probes with magnetic coating [2010.01]

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[Session: CE41, Project/Projet: C448]

N	60/58	• SThM [Scanning Thermal Microscopy] or apparatus therefor, e.g. SThM probes [2010.01]
N	60/60	• SECM [Scanning Electro-Chemical Microscopy] or apparatus therefor, e.g. SECM probes [2010.01]

Sq70	N	70/00	General aspects of SPM probes, their manufacture or their related instrumentation, insofar as they are not specially adapted to a single SPM technique covered by group G01Q 60/00 [2010.01]
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[Session: SC06, Project/Projet: A007]

	N	70/02	• Probe holders [2010.01]
	N	70/04	• • with compensation for temperature or vibration induced errors [2010.01]
	N	70/06	• Probe tip arrays [2010.01]
	N	70/08	• Probe characteristics [2010.01]
	N	70/10	• • Shape or taper [2010.01]
	N	70/12	• • • Nano-tube tips [2010.01]

	N	70/14	• • Particular materials [2010.01]
	N	70/16	• Probe manufacture [2010.01]
	N	70/18	• • Functionalisation [2010.01]

[Session: CE41, Project/Projet: C448]

Sq80	N	80/00	<b>Applications, other than SPM, of scanning-probe techniques</b> (manufacture or treatment of micro-structures B81C; manufacture or treatment of nano-structures B82B 3/00; recording or reproducing information using near-field interaction G11B 9/12, G11B 11/24 or G11B 13/08) [2010.01]
Sq100	N	90/00	<b>Scanning-probe techniques or apparatus not otherwise provided for</b> [2010.01]

G01S

[Session: SC07, Project/Projet: A009]

	C	1/02	• using radio waves ( G01S 19/00 takes precedence ) [1,2010.01]
	C	5/02	• using radio waves ( G01S 19/00 takes precedence ) [1,2010.01]
	C	11/02	• using radio waves ( G01S 19/00 takes precedence ) [5,2010.01]
Sq80	N	19/00	<b>Satellite radio beacon positioning systems; Determining position, velocity or attitude using signals transmitted by such systems</b> [2010.01]
	N	19/01	• Satellite radio beacon positioning systems transmitting time-stamped messages, e.g. GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO [2010.01]
	N	19/02	• • Details of the space or ground control segments [2010.01]
	N	19/03	• • Cooperating elements; Interaction or communication between different cooperating elements or between cooperating elements and receivers [2010.01]
	N	Note(s) 19/03	Note(s)  The term "cooperating elements" designates additional elements or subsystems, including receivers of other users, which interact or communicate with the receiver or the satellite positioning system. [2010.01]
	N	19/04	• • • providing carrier phase data [2010.01]
	N	19/05	• • • providing aiding data [2010.01]
	N	19/06	• • • • employing an initial estimate of the location of the receiver as aiding data or in generating aiding data [2010.01]
	N	19/07	• • • providing data for correcting measured positioning data, e.g. DGPS [differential GPS] or ionosphere corrections [2010.01]
	N	19/08	• • • providing integrity information, e.g. health of satellites or quality of ephemeris data [2010.01]
	N	19/09	• • • providing processing capability normally carried out by the receiver [2010.01]
	N	19/10	• • • providing dedicated supplementary positioning signals [2010.01]
	N	19/11	• • • • wherein the cooperating elements are pseudolites or satellite radio beacon positioning system signal repeaters [2010.01]
	N	19/12	• • • • wherein the cooperating elements are telecommunication base stations [2010.01]
	N	19/13	• • Receivers [2010.01]
	N	19/14	• • • specially adapted for specific applications [2010.01]

	N	19/15	. . . . Aircraft landing systems [2010.01]
	N	19/16	. . . . Anti-theft; Abduction [2010.01]
	N	19/17	. . . . Emergency applications [2010.01]
	N	19/18	. . . . Military applications [2010.01]
	N	19/19	. . . . Sporting applications [2010.01]
	N	19/20	. . . Integrity monitoring, fault detection or fault isolation of space segment [2010.01]
	N	19/21	. . . Interference related issues [2010.01]
	N	19/22	. . . Multipath-related issues [2010.01]
	N	19/23	. . . Testing, monitoring, correcting or calibrating of a receiver element [2010.01]
	N	19/24	. . . Acquisition or tracking of signals transmitted by the system [2010.01]
	N	19/25	. . . . involving aiding data received from a cooperating element, e.g. assisted GPS [2010.01]
	N	19/26	. . . . involving a sensor measurement for aiding acquisition or tracking [2010.01]
	N	19/27	. . . . creating, predicting or correcting ephemeris or almanac data within the receiver [2010.01]
	N	19/28	. . . . Satellite selection [2010.01]
	N	19/29	. . . . carrier related [2010.01]
	N	19/30	. . . . code related [2010.01]
	N	19/31	. . . Acquisition or tracking of other signals for positioning [2010.01]
	N	19/32	. . . Multimode operation in a single same satellite system, e.g. GPS L1/L2 [2010.01]
	N	19/33	. . . Multimode operation in different systems which transmit time stamped messages, e.g. GPS/GLONASS [2010.01]
	N	19/34	. . . Power consumption [2010.01]
	N	19/35	. . . Constructional details or hardware or software details of the signal processing chain [2010.01]
	N	19/36	. . . . relating to the receiver frond end [2010.01]
	N	19/37	. . . . Hardware or software details of the signal processing chain [2010.01]
	N	19/38	. Determining a navigation solution using signals transmitted by a satellite radio beacon positioning system [2010.01]
	N	19/39	. . the satellite radio beacon positioning system transmitting time-stamped messages, e.g. GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO [2010.01]
	N	19/40	. . . Correcting position, velocity or attitude [2010.01]
	N	19/41	. . . . Differential correction, e.g. DGPS [differential GPS] [2010.01]
	N	19/42	. . . Determining position [2010.01]
	N	19/43	. . . . using carrier phase measurements, e.g. kinematic positioning; using long or short baseline interferometry [2010.01]
	N	19/44	. . . . Carrier phase ambiguity resolution; Floating ambiguity; LAMBDA [Least-squares AMBiguity Decorrelation Adjustment] method [2010.01]
	N	19/45	. . . . by combining measurements of signals from the satellite radio beacon positioning system with a supplementary measurement [2010.01]
	N	19/46	. . . . the supplementary measurement being of a radio-wave signal type [2010.01]
	N	19/47	. . . . the supplementary measurement being an inertial measurement, e.g. tightly coupled inertial [2010.01]
	N	19/48	. . . . by combining or switching between position solutions derived from the satellite radio beacon positioning system and position solutions derived from a further system [2010.01]

	N	19/49	. . . . whereby the further system is an inertial position system, e.g. loosely-coupled [2010.01]
	N	19/50	. . . . whereby the position solution is constrained to lie upon a particular curve or surface, e.g. for locomotives on railway tracks [2010.01]
	N	19/51	. . . . Relative positioning [2010.01]
	N	19/52	. . . Determining velocity [2010.01]
	N	19/53	. . . Determining attitude [2010.01]
	N	19/54	. . . . using carrier phase measurements; using long or short baseline interferometry [2010.01]
	N	19/55	. . . . Carrier phase ambiguity resolution; Floating ambiguity; LAMBDA [Least-squares AMBiguity Decorrelation Adjustment] method [2010.01]

#### G02B

[Session: CE41, Project/Projet: C448]

Sq10	M	21/00	Microscopes ( eyepieces G02B 25/00 ; polarising systems G02B 27/28 ; measuring microscopes G01B 9/04 ; microtomes G01N 1/06 ; <del>investigating or analysing surface structures in atomic ranges using scanning-probe techniques, e.g. techniques employing scanning tunnelling or scanning near-field optical microscopes G01N 13/10 ; details of scanning-probe apparatus, in general G12B 21/00</del> scanning-probe techniques or apparatus G01Q ) [1,7]
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#### G04G

[Session: CE41, Project/Projet: M099]

M	Subclass index	<u>Subclass Index</u>	
		PRODUCING TIMING PULSES	3/00
		TIME-SETTING ; SYNCHRONISING	5/00; 7/00
		TIME- OR DATE-INDICATING	
		Visual ; optical signals; acoustic signals	9/00 ; 11/00; 13/00
		OPERATING A DEVICE AT PRESELECTED TIMES	15/00
		STRUCTURAL DETAILS ; HOUSINGS	17/00
		ELECTRIC POWER SUPPLY CIRCUITS	19/00
		<del>OTHER SUBJECTS-</del>	1/00
		INPUT OR OUTPUT DEVICES INTEGRATED IN TIME-PIECES	21/00
		OTHER SUBJECTS	99/00
D	1/00	(transferred to G04G 99/00)	
	D	1/02	(transferred to G04G 21/00)
	D	1/04	(transferred to G04G 21/02)
	D	1/06	(transferred to G04G 21/04)
	D	1/08	(transferred to G04G 21/06)
	D	1/10	(transferred to G04G 21/08)
Sq90	N	21/00	Input or output devices integrated in time-pieces [2010.01]
	N	21/02	. Detectors of external physical values, e.g. temperature [2010.01]
	N	21/04	. using radio waves [2010.01]
	N	21/06	. using voice [2010.01]

	N	21/08	• Touch switches specially adapted for time-pieces [2010.01]
Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]

G05B		[Session: CE41, Project/Projet: M099]	
M	Note after title	1.	This subclass <u>covers</u> features of control systems or elements for regulating specific variables, which are clearly more generally applicable.
	G05B	2.	This subclass <u>does not cover</u> : [7] <ul style="list-style-type: none"> <li>a. systems for controlling or regulating non-electric variables in general, which are covered by subclass G05D; [7]</li> <li>b. systems for regulating electric or magnetic variables in general, which are covered by subclass G05F; [7]</li> <li>c. systems specially adapted for the control of particular machines or apparatus provided for in a single other subclass, which are classified in the relevant subclass for such machines or apparatus, provided that there is specific provision for control or regulation relevant to the special adaptation (see Note (5), below). Otherwise, classification is made in the most appropriate place in this subclass. [7]</li> </ul>
		3.	In this subclass , the following terms or expressions are used with the meanings indicated: <ul style="list-style-type: none"> <li>• "automatic controller" means a system, circuit, or device in which a signal from the detecting element is compared with a signal representing the desired value and which operates in such a way as to reduce the deviation. The automatic controller generally does not include the sensitive element, i.e. that element which measures the value of the condition to be corrected, or the correcting element, i.e. that element which adjusts the condition to be corrected;</li> <li>• "electric" includes "electromechanical" , "electrohydraulic" or "electropneumatic".</li> </ul>
		4.	In this subclass , details of specific control systems are classified in the group relevant to the system, if not otherwise provided for.
		5.	This Note lists places in the IPC where there is specific provision of the kind referred to in Note (2)(c), above; where such provision is at a general level, the places are listed under the heading "General references"; where the provision is related to programme control, the places are listed under the heading "Places related to group G05B 19/00 ". [7]
		<u>General references</u> [7]	
		A01K	Spreading or positioning of drawn nets for fishing [7]
		73/04	
		A61G	
		13/02,	
		A61G	Adjustable operating tables , operating chairs , or dental chairs [7]
		15/02	
		B01D	Distillation [7]
		3/42	
		B01D	
		24/48,	
		B01D	
		29/60,	

B01D	
37/04,	
B01D	Filtration [7]
46/44	
B01D	Separation of gases or vapours by gas-analysis apparatus [7]
53/30	
B01D	Separation using semi-permeable membranes [7]
61/00	
B01J	Feed or outlet in chemical or physical processes [7]
4/00	
B01J	Oxygen content in oxidation gas for regeneration or reactivation of catalysts [7]
38/14	
B01J	Ion-exchange processes [7]
47/14	
B05B	Delivery in spraying systems [7]
12/02	
B21B	
37/00,	
B21B	Metal-rolling mills [7]
39/00	
B21K	Positioning tool carriers for forging , pressing or hammering [7]
31/00	
B22D	Continuous casting of metals [7]
11/16	
B22D	Centrifugal casting of metals [7]
13/12	
B22D	Pressure or injection die casting of metals [7]
17/32	
B22D	Pressure or vacuum casting of metals [7]
18/08	
B22D	Casting of metals in general [7]
46/00	
B23B	Tool or work positioning for boring or drilling [7]
39/26	
B23D	Machines for shearing or similar cutting stock travelling otherwise than in the direction of the cut [7]
36/00	
B23Q	Driving or feeding mechanisms of machine tools [7]
5/00	

B23Q	Feed movement, cutting velocity or position of machine tools [7]
15/00	
B23Q	Copying from a pattern or master model for machine tools [7]
35/00	
B24B	Position of grinding tool or work [7]
47/22	
B25J	Manipulators [7]
13/00	
B26D	Position of cutters in cutting machines [7]
5/02	
B29C	
39/00	
to	
B29C	Shaping techniques for plastic substances [7]
51/00	
B30B	
15/14,	
B30B	Presses [7]
15/16	
B41B	Composing machines [7]
27/00	
B41F	Printing machines or presses [7]
33/00	
B41J	Feeding sheets or webs in typewriters [7]
11/42	
B41L	Apparatus or devices for manifoldng, duplicating or printing for
39/00	commercial purposes [7]
B41L	Addressing machines [7]
47/56	
B60G	
17/00	
to	
B60G	Vehicle suspension [7]
21/00	
B60T	
7/00	
to	
B60T	Vehicle brakes [7]
15/00	



B65B	Machines for packaging	[7]
57/00		
B65G	Conveyers	[7]
43/00		
E02F	Sequence of drive operations for dredging or soil-shifting	[7]
3/43		
E21B	Earth drilling operations	[7]
44/00		
F01K		
1/12,		
F01K	Steam accumulators	[7]
1/16		
F01K		
3/00,		
F01K		
7/00,		
F01K	Steam engine plants	[7]
13/02		
F02C	Air intakes for gas-turbine or jet-propulsion plants	[7]
7/05		
F02C	Gas-turbine plants; Fuel supply in air-breathing jet-propulsion	
9/00	plants	[7]
F02D	Combustion engines	[7]
F02K		
1/15,		
F02K	Jet pipes or nozzles in jet-propulsion plants	[7]
1/76		
F02K		
7/00		
to		
F02K	Jet-propulsion plants	[7]
9/00		
F04B		
1/00,		
F04B		
27/00,		
F04B	Positive-displacement machines	[7]
49/00		

F04D	
15/00,	
F04D	Non-positive-displacement pumps, pumping installations, or
27/00	systems [7]
F16D	
43/00,	
F16D	Clutches [7]
48/00	
F16F	Suppression of vibrations using fluid means [7]
15/02	
F16H	
59/00	
to	
F16H	Gearings [7]
63/00	
F22B	Steam boilers [7]
35/00	
F23G	Incineration of waste [7]
5/50	
F23N	Combustion in combustion apparatus [7]
F24B	Combustion in open fires using solid fuel [7]
1/18	
F24J	Solar heating [7]
2/40	
F26B	Drying processes of solid materials or objects [7]
25/22	
F28B	Steam or vapour condensers [7]
11/00	
F28D	Heat-exchange apparatus with intermediate heat-transfer medium in
15/06	closed tubes passing into or through conduit walls, in which the medium
	condenses and evaporates [7]
F28F	Heat-exchanges or heat-transfer apparatus in general [7]
27/00	
G06F	Computers [7]
11/00	
G08G	Traffic [7]
G09G	Indicating devices using static means to present variable
	information [7]

G11B	
15/00,	
G11B	Driving , starting or stopping of record carriers [7]
19/00	
G21C	Nuclear reaction [7]
7/00	
G21D	Nuclear power plant [7]
3/00	
H01J	Electron-beam or ion-beam tubes used for localised treatment of
37/30	objects [7]
H02P	Electric motors, generators , or dynamo-electric converters [7]

Places related to group G05B 19/00 (programme-control systems) [7]

A61J	Programmed medicine dispensers [7]
7/04	
A61L	Disinfection or sterilising [7]
2/24	
A61N	Heart pace-makers [7]
1/36	
A63H	Steering-mechanisms for toy vehicles [7]
17/39	
B04B	Centrifuges [7]
13/00	
B21B	Thickness of work produced by metal-rolling mills [7]
37/24	
B21D	Bending metal rods , profiles, or tubes [7]
7/12	
B23B	
39/08,	
B23B	Boring or drilling machines [7]
39/24	
B23H	Electrical discharge or electrochemical machining [7]
7/20	
B23P	Assembling of parts to compose units [7]
21/00	
B24B	Series of individual steps in grinding a workpiece [7]
51/00	
B25J	Manipulators [7]
9/00	

B30B	Presses [7]
15/26	
B41F	Sequence of operations in printing machines or presses [7]
33/16	
B41J	Feeding sheets or webs in typewriters [7]
11/44	
B41L	Sequence of operations in apparatus or devices for manifolding,
39/16	duplicating or printing for commercial purposes [7]
B41L	Selecting text or image to be printed in addressing machines [7]
47/64	
B60L	Traction-motor speed of electrically-propelled vehicles [7]
15/20	
B65H	Piling articles [7]
31/24	
B66C	
13/48,	
B66C	Crane drives [7]
23/58	
<del>B67D</del>	<del>Dispensing , delivering , or transferring liquids [7]</del>
<del>5/44</del>	
B67D	Dispensing , delivering or transferring liquids [7]
7/14	
D05B	
19/00,	
D05B	Sewing machines [7]
21/00	
D05C	Embroidering machines [7]
5/04	
D06F	Operations in washing machines [7]
33/00	
F02D	
27/02,	
F02D	Combustion engines [7]
28/00	
F02D	Supply of combustible mixture or its constituents to combustion
41/26	engines [7]
F15B	Fluid-pressure actuator systems [7]
21/02	

F23N	
5/20,	
F23N	Combustion in combustion apparatus [7]
5/22	
G01G	Weighing apparatus [7]
19/38	
G04C	
23/08,	
G04C	Electromechanical clocks or watches [7]
23/34	
G06C	Mechanically operating digital computers [7]
21/00	
G06F	Control units for electric digital data processing [7]
9/00	
G06F	Peripheral devices for electric digital data processing [7]
13/10	
G06F	Electrically operating digital computers [7]
15/00	
G06G	Electrically or magnetically operating analogue computers [7]
7/06	
G09B	
7/04,	
G09B	
7/08,	
G09B	Electrically-operated teaching apparatus or devices [7]
7/12	
H01H	Electric switches [7]
43/00	
H01J	Electron-beam or ion-beam tubes used for localised treatment of
37/30	objects [7]
H03K	Electronic switching or gating [7]
17/296	
H04Q	Selecting arrangements in electric communication technique [7]
3/54	

G05D

[Session: CE41, Project/Projet: M099]

M	Note after title	1.	This subclass <u>does not cover</u> features of general applicability to regulating systems, e.g. anti-hunting arrangements,
	G05D		which are covered by subclass G05B.

2. In this subclass , the following term is used with the meaning indicated:

- "systems" includes self-contained devices such as speed governors , pressure regulators.

3. Control systems specially adapted for particular apparatus, machines or processes are classified in the subclasses for the apparatus, machines or processes, provided that there is specific provision for control or regulation relevant to the special adaptation, either at a detailed level (e.g. A21B 1/40: "for regulating temperature in bakers' ovens") or at a general level (e.g. B23K 9/095: "for automatic control of welding parameters in arc welding"). Otherwise, classification is made in the most appropriate place in this subclass.

The following are lists of places where there is specific provision of the kind referred to above. Where such provision is at a detailed level, the places have been grouped according to the main groups of this subclass. Where the provision is at a general level (e.g. of a kind appropriate to more than one of the main groups specified in the lists, or to main groups G05D 27/00 or G05D 29/00 ), the places are listed under the title "General References". Places related to G05D 1/00

A01B	Agricultural machines or implements
69/00	
A63H	Toy vehicles
17/36	
B60V	Air-cushion vehicles
1/11	
B60W	Road vehicle path control <b>[8]</b>
30/10	
B62D	Steering controls of motor vehicles or trailers, i.e. means for initiating a
1/00	change of direction
B62D	Arrangements for automatically controlling the steering depending on
6/00	driving conditions
B62D	Chassis of endless-tracked vehicles
55/116	
B63H	Marine steering; control of waterborne vessels
25/00	
B64C	Controlling aircraft
13/00-B64C	
15/00	
B64D	Controlling attitude or direction of aircraft ejector seats
25/11	
B64G	Cosmonautic vehicles
1/24	
F41G	Self-propelled missiles
7/00	
F42B	Guided missiles
15/01	
F42B	Marine torpedoes

19/01

Places related to G05D 3/00

A43D Footwear manufacture

119/00

B21K Tool carriers in forging or pressing

31/00

B23B Pattern-controlled boring or drilling tools

39/26

B23D Planing or slotting machines controlled by copying device

1/30,

B23D

3/06,

B23D

5/04

B23H Electrode to workpiece spacing in electric discharge and  
7/18 electrochemical machining

B23K Workpiece in laser welding or cutting

26/02

B23K Workpiece in welding

37/04

B23K Molten metal in welding

37/06

B23Q Spindles in machine tools

5/20

B23Q Tool or work position in machine tools

15/00,

B23Q

16/00

B23Q Tools controlled by pattern or master model

35/00

B24B Grinding controlled by patterns, drawings, magnetic tape or the like

17/00

B24B Starting position in grinding

47/22

B30B Actuating members in presses

15/24

B62D Chassis of tracked vehicles

55/116

B65H Web-advancing mechanisms

23/18

E02F                      Dippers or buckets in dredgers

3/43

F15B                      Fluid-pressure servomotors with follow-up action

9/00

F24J                      Tracking of solar heat collectors

2/38

G03F                      Photomechanical production of patterned or textured surfaces

9/00

G11B                      Rotating heads in information storage systems

5/588

G21C                      Movement of control elements in nuclear reactors

7/12

Places related to G05D 5/00

A24B                      Tobacco cutting

7/14

B05C                      Thickness of coating of fluent material on surface

11/02

B21B                      Thickness , width , diameter or other transverse dimensions of the  
products of metal-rolling mills

37/16

C03B                      Dimension of glass ribbon

18/04

D21F                      Thickness of layer in paper making

7/06

Places related to G05D 7/00

A45D                      Air in hair drying helmets

20/26

A61M                      Flow of media to the human body

5/168

B03C                      Gases or vapour in electrostatic separators

3/36

B05C                      Fluent material in coating devices

11/10

B67D                      Dispensing beverages on draught

1/12

~~B67D                      Transferring liquids~~

~~5/28~~

B67D                      *Transferring liquids*

*7/28*



C10K	Gas purifiers
1/28	
E21B	Flushing boreholes
21/08	
E21B	Obtaining liquids from wells
43/12	
F01D	Flow in non-positive-displacement machines or systems
17/00	
F01M	Lubrication arrangements
1/16	
F01P	Coolant flow in cooling devices
7/00	
F02C	Gas-turbine working fluid
9/16 ,	
F02C	
9/50	
F16L	Throttle passages in pipes
55/027	
F24F	Air-flow or supply of heating or cooling fluids in air treatment
11/00	arrangements
F26B	Air or gas flow in dryers
21/12	
G01G	Continuous flow weighing apparatus
11/08	
G21D	Coolant in nuclear power plant
3/14	

Places related to G05D 9/00

B01D	Liquid level in sedimentation arrangements
21/34	
B41L	Ink level in printing, manifold or duplicating arrangements
27/04	
F22D	Feed water for boilers
5/00	
H01J	Liquid pool electrodes in electric discharge tubes or lamps
1/10,	
H01J	
13/14	

Places related to G05D 11/00

B01D Density in sedimentation arrangements

21/32

B01F Mixers

15/04

B24C Abrasive blasts

7/00

B28C Mixtures of clays or cements

7/00

B65G Bulk material conveyers

53/66

F02K Flow ratio in jet-propulsion plants

3/075

Places related to G05D 13/00

B21C Drum speed in metal drawing

1/12

B23Q Cutting velocity of tool or work

15/00

B30B Ram speed in presses

15/20

B60K Setting or limiting speed of vehicles

31/00

B60L Electrically-propelled vehicles

15/00

B60W Road vehicle cruise control **[8]**

30/14

B64D Cruising speed of aircraft

31/08

D01D Feed rate in manufacture of artificial filaments, threads, fibres , bristles  
or ribbons

1/09

D01G Carding machines

15/36

D02H Warping , beaming or leasing machines

13/14

D03D Cyclically varying speed of looms

51/16

G01N Speed of fluid carrier in chemical analysis

30/32

G11B Filamentary or web record carriers or heads for such carriers in  
information storage systems

15/46

G11B	Non-filamentary , non-web record carriers, or heads for such carriers in
19/28	information storage systems

Places related to G05D 15/00

B25D	Portable percussive tools
9/26	
B30B	Ram pressure in presses
15/22	
B65H	Tension in filamentary material
59/00	
B65H	Tension in webs , tapes, filamentary material
77/00	
B66D	Rope , cable or chain tension
1/50	
D03D	Tension in looms
49/04	
D05B	Tension in sewing machines
47/04	
D21F	Pressure in paper-making machines
3/06	
F26B	Drying fabrics
13/12	
F26B	Pressure in dryers
21/10	
G11B	Record carrier tension in information storage arrangements
15/43	

Places related to G05D 16/00

B60C	Tyre pressure
23/00	
B63C	Air within diving suit
11/08	
B64D	Aircraft air-pressure
13/00	
B65G	Bulk material conveyers
53/66	
D01D	Manufacture of artificial filaments, threads, fibres , bristles or ribbons
1/09	
E21B	Flushing boreholes
21/08	
F01M	Lubrication arrangements

1/16	
G01N	Pressure of fluid carrier in chemical analysis
30/32	
H01J	Pressure in electric discharge tubes or lamps
7/14	
H01K	Pressure in electric incandescent lamps
1/52	
<u>Places related to G05D 19/00</u>	
B25D	Portable percussion tools
9/26	
B65G	Jigging conveyers
27/32	
<u>Places related to G05D 21/00</u>	
B01D	Density in sedimentation arrangements
21/32	
B01D	Treating gases or vapours
53/30	
G01N	Composition of fluid carrier in chemical analysis
30/34	
<u>Places related to G05D 22/00</u>	
A01G	Watering gardens, fields, sports grounds or the like
25/16	
A01K	Poultry incubators
41/04	
A24B	Tobacco products
9/00	
F24F	Air conditioning
11/00	
F26B	Dryers
21/08	
<u>Places related to G05D 23/00</u>	
A21B	Bakers' ovens
1/40	
A45D	Hair curlers
6/20	
B21C	Metal extruding
31/00	
B60C	Tyre temperature
23/00	

B64G	Cosmonautic vehicles
1/50	
C03B	Float baths in glass making
18/18,	
C03B	
18/22	
D01D	Manufacture of artificial filaments, threads, fibres , bristles or ribbons
1/09	
D04B	Knitting machines
35/30	
D06F	Hand irons
75/26	
D21F	Paper-making machines
5/06	
F01M	Lubricant in lubrication arrangements
5/00	
F16N	Arrangements for supplying oil or unspecified lubricant from a reservoir
7/08	
F22G	Steam superheat
5/00	
F26B	Dryers
21/10	
G01N	Temperature of fluid carrier in chemical analysis
30/30	
H01M	Electric storage cells
10/50	
H05B	Dielectric , induction or microwave heating
6/06,	
H05B	
6/50,	
H05B	
6/68	
H05G	Anode of X-ray tube
1/36	

Places related to G05D 25/00.

B41B	Photographic composing machines
21/08	
H01S 3/10,	Lasers and other light sources
H05B	

33/08,  
H05B  
35/00-H05B  
43/00

General references

A01D Combines [7]  
41/127  
A01J Milking machines  
5/007  
B23K Welding parameters  
9/095  
B23Q Copying  
35/00  
B24B Grinding or polishing  
17/00 ,  
B24B  
49/00  
B24C Abrasive blasts  
7/00  
B67D Dispensing beverages on draught  
1/12  
F23C Combustion apparatus in which combustion takes place in a fluidised  
10/28 bed of fuel or other particles [7]  
G03G Electrographic , electrophotographic or magnetographic processes  
21/20  
H02P Dynamo-electric motors or generators  
5/00-H02P  
9/00

G06N

[Session: CE41, Project/Projet: M099]

D 1/00 (transferred to G06N 99/00)

Sq100	N	99/00	Subject matter not provided for in other groups of this subclass [2010.01]
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G10

[Session: CE41, Project/Projet: M110]

- U Note after title
- G10
1. This class covers all sound-emitting devices, in general, whether or not they may be considered as being musical.
  2. In this class, the following expression is used with the meaning indicated:
    - "musical instrument" does not exclude devices emitting a single sound signal.
  3. The following Class Index is given in place of subclass indexes, to show the grouping of the elaborations belonging to

different subclasses, under the following three fundamental types:

- wind instruments;
- string instruments;
- percussion instruments,

which relate clearly to the majority of instruments.

4. There are of course some instruments of which the principle of operation belongs less clearly to one of the three types mentioned in Note (3). They correspond to groups G10D 17/00 or G10K 7/00, G10K 9/00 or G10K 15/04, all the other groups normally finding a definite place.

M Subclass index **Subclass Index**

#### ACOUSTICS ; OPERATIONS ON SOUND WAVES

Speech analysis or synthesis; speech recognition ; <i>audio analysis or processing</i>	G10L
Methods or devices for transmission of sound or protection against sound, not otherwise provided for	11/00, 13/00
Acoustics not otherwise provided for	15/00

#### WIND INSTRUMENTS

General features; <del>details</del> ; <del>accessories</del> <i>details or accessories</i>	7/00; 9/00
Organs , harmoniums <del>or</del> similar instruments	1/00, 3/00
Accordions , concertinas <del>or</del> similar instruments; other types of instruments	11/00; 7/00
Whistles <del>;</del> <del>sirens</del> <del>;</del> <del>horns</del>	<del>5/00</del> <del>;</del> <del>7/00</del> <del>;</del> <i>horns 5/00</i> ; 9/00

#### ~~STRING~~ *STRINGED* INSTRUMENTS

General features; details <del>or</del> accessories	1/00; 3/00
Pianos , <del>similar instruments</del> <i>harpichords, spinets or similar stringed musical instruments with one or more keyboards</i> ; tools and methods for <del>making or</del> <i>maintenance</i> <del>the manufacture or maintenance thereof</del>	1/00 , 3/00; 9/00
<del>Other types of instruments</del> <i>Other instruments</i>	1/00

#### PERCUSSION INSTRUMENTS

Bells , rattles <del>or</del> similar instruments	1/00, 3/00
Other instruments	13/00

#### OTHER PARTICULAR DEVICES ~~;~~ DEVICES USING UNDEFINED PRINCIPLES;

#### COMBINATIONS OF INSTRUMENTS; MUSIC ACCESSORIES

Electroponic musical instruments	G10H
Automatic musical instruments	G10F
Sirens ; devices with vibrators	7/00; 9/00
Combinations : of pianos with other instruments; of other instruments	5/00; 15/00
Music accessories	G10G

INSTRUMENTS NOT OTHERWISE PROVIDED FOR	17/00
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G10B

[Session: CE41, Project/Projet: M110]

M	Title
	<p>ORGANS ; HARMONIUMS <i>OR LIKE WIND-ACTUATED MUSICAL INSTRUMENTS</i> ( mouth organs <del>or</del> <del>accordions</del> <i>G10D</i> <i>G10D 7/12</i> ; <i>accordions G10D 11/00</i> ; aspects of automatic actuation <del>G10F</del> <i>G10F 1/12</i> ; combinations of microphones, pick-ups or amplifiers with musical instruments, <del>electronic organs</del> <i>G10H G10H</i> ; <i>electronic organs G10H 7/00</i> )</p>

Sq0	M	1/00	General design <del>of organs, harmoniums, or like wind-actuated musical instruments</del>
Sq10	M	3/00	<del>Details of, or accessories for, organs, harmoniums, or the like</del> <i>Details or accessories</i>
	M	3/02	• Blowers <del>(compressors, blowers, per sq F04)</del>
	M	3/08	• Pipes, e.g. open <del>pipe, reed pipe</del> <i>pipes or reed pipes</i>
	M	3/12	• Keys or keyboards ; Manuals <del>(keyboards for musical instruments in general G10C 3/12)</del>
	M	3/22	• Details <del>peculiar to</del> <i>specially adapted</i> for electrically-operated organs, e.g. contacts <del>therefor</del> <i>therein</i>

#### G10C

[Session: CE41, Project/Projet: M110]

	M	Title	PIANOS, <i>HARPSICHORDS, SPINETS OR SIMILAR STRINGED MUSICAL INSTRUMENTS WITH ONE OR MORE KEYBOARDS</i> ( non-musical aspects of toy pianos A63H 5/00 ; aspects of automatic actuation G10F ; combinations of microphones, pick-ups or amplifiers with musical instruments G10H )
Sq10	M	1/00	General design <del>of pianos or like stringed musical instruments with keyboard</del>
	M	1/06	• of <del>cembaloos, spinets, harpsichords, spinets</del> or similar stringed instruments
Sq20	M	3/00	<del>Details of, or accessories for, pianos or the like</del> <i>Details or accessories</i>
Sq0	M	5/00	Combinations <del>of pianos</del> with other musical instruments, e.g. with bells, <del>with xylophone</del> <i>or xylophones</i>
Sq30	M	9/00	<del>Special tools or methods</del> <i>Methods or tools specially adapted</i> for the manufacture or maintenance of <del>pianos</del> <i>musical instruments covered by this subclass</i>

#### G10D

[Session: CE41, Project/Projet: M110]

	M	Title	<i>STRINGED MUSICAL INSTRUMENTS ; WIND-ACTUATED MUSICAL INSTRUMENTS ; ACCORDIONS OR CONCERTINAS ; PERCUSSION MUSICAL INSTRUMENTS ; MUSICAL INSTRUMENTS NOT OTHERWISE PROVIDED FOR ( aspects of automatic actuation</i> <del>automatic musical instruments</del> <i>G10F ; combinations of musical instruments with microphones, pick-ups or amplifiers</i> <del>with musical instruments</del> <i>G10H ; sound-producing devices not regarded as musical instruments</i> <del>or parts thereof</del> <i>G10K )</i>
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N Note after title Note(s)

G10D

1. This subclass covers certain stringed musical instruments that can optionally include a keyboard, e.g. zithers. **[2010.01]**
2. This subclass does not cover pianos, harpsichords, spinets or similar stringed instruments provided by design with one or more keyboards, which are covered by subclass G10C. **[2010.01]**

Sq10	M	1/00	General design of stringed musical instruments <del>(pianos or similar instruments with keyboard G10C)</del> , e.g. <i>violins, harps, mandolins, guitars, banjos or zithers</i>
Sq20	M	3/00	Details of, or accessories for, stringed musical instruments, e.g. <i>slide-bars</i>
	M	3/08	• in the form of keyboards <del>(keyboards for musical instruments in general G10C 3/12)</del>
	M	3/12	• Anchoring devices for strings, e.g. tail <del>piece, hitchpin</del> <i>pieces or hitchpins</i>
	M	3/14	• Tuning devices, e.g. pegs, pins, <del>friction</del> <i>or friction</i> discs



	M	3/18	• Chin-rests, hand-rests or guards as part of the <del>instruments ( separate auxiliary devices or supports G10G )</del> instrument
Sq40	M	7/00	General design of wind-actuated musical instruments ( <del>accordions</del> , e.g. <i>flutes, ocarinas, oboes, clarinets, bagpipes, saxophones, trumpets or mouth-organs</i> ( <i>accordions or concertinas</i> G10D 11/00 ; organs, <del>harmoniums</del> or <i>harmoniums</i> G10B ; whistles G10K )
	M	7/02	• of the type wherein an air current is directed against a ramp edge, e.g. <del>flute, recorder</del> <i>flutes or recorders</i>
	M	7/06	• of the type with a beating reed ( <del>Rohrblatt</del> ) ( <i>Rohrblatt</i> ) or reeds, e.g. <del>oboe, clarinet, bassoon, bagpipe</del> <i>oboes, clarinets, bassoons or bagpipes</i>
	M	7/10	• of the type with a cupped mouthpiece, e.g. <del>cornet, orchestral trumpet, trombone</del> <i>cornets, orchestral trumpets or trombones</i>
	M	7/12	• of the type with free reeds ( <del>Zunge</del> ), e.g. <del>mouth-organ, trumpet</del> [ <i>Zunge</i> ], e.g. <i>mouth-organs or trumpets</i> for children
Sq30	M	11/00	Accordions, concertinas, or the like ; Keyboards therefor ( <del>keyboards for musical instruments in general G10C 3/12</del> )
Sq60	M	13/00	<del>Percussive musical instruments</del> <i>Percussion musical instruments, e.g. drums, tambourines, timpani, castanets, cymbals, triangles, gongs or plates ; Details or accessories</i>
	M	13/06	• Castanets, cymbals, triangles, or other single-toned <del>percussive</del> <i>percussion</i> musical instruments ( bells <del>G40K G10K 1/00</del> )
Sq0	M	15/00	Combinations of different musical instruments ( combinations with pianos <del>G10C</del> , <i>harpsichords, spinets or similar stringed instruments with one or more keyboards G10C 5/00</i> )

#### G10F

[Session: CE41, Project/Projet: M110]

	M	Title	AUTOMATIC MUSICAL INSTRUMENTS ( non-musical aspects of toy instruments A63H 5/00 ; sound-recording or reproducing G11B ; <del>associated working</del> <i>working in association</i> with recording or reproducing apparatus G11B 31/02 )
	M	1/08	• <del>Percussive</del> <i>Percussion</i> musical instruments
	M	1/16	• Stringed musical instruments ( <del>pianofortes G10F 1/02, G10F 1/04</del> ) <i>other than pianofortes</i>
Sq20	M	5/00	<del>Details of, or accessories for, automatic musical instruments</del> <i>Details or accessories</i>
	M	5/06	• • Driving or setting of tune barrels, discs, or the like ; Winding, rewinding, or guiding of tune sheets or the like ( <del>handling webs or sheets in general B65H</del> )

#### G10G

[Session: CE41, Project/Projet: M110]

	M	Title	AIDS FOR MUSIC ( <del>metronomes G04F 5/02</del> ; teaching music G09B 15/00 ) ; <i>SUPPORTS FOR MUSICAL INSTRUMENTS ; OTHER AUXILIARY DEVICES OR ACCESSORIES FOR MUSIC OR MUSICAL INSTRUMENTS ( metronomes G04F 5/02 )</i>
Sq30	M	7/00	Other auxiliary devices, <del>e.g. separate holder for resin, strings, conductors' batons</del> <i>or accessories, e.g. conductors' batons or separate holders for resin or strings</i>

#### G10H

[Session: CE41, Project/Projet: M110]

	M	Title	ELECTROPHONIC MUSICAL INSTRUMENTS ( <del>electronic circuits in general H03</del> ) ; <i>INSTRUMENTS IN WHICH THE TONES ARE GENERATED BY ELECTROMECHANICAL MEANS OR ELECTRONIC GENERATORS, OR IN WHICH THE TONES ARE SYNTHESISED FROM A DATA STORE</i>
M	Note after title	This subclass <u>covers</u> musical instruments in which individual notes are constituted as electric oscillations under the control of a	

	G10H		performer and the oscillations are converted to sound-vibrations by a <del>loud-speaker or equivalent instrument</del> <i>loudspeaker or equivalent device</i> .
M	1/02		• Means for controlling the tone frequencies, e.g. attack, <del>or</del> decay ; Means for producing special musical effects, e.g. <del>vibrate,</del> <i>glissande vibratos or glissandos</i>
	M	1/12	• . . . by filtering complex <del>wave-forme</del> <i>waveforms</i> ( G10H 1/14, G10H 1/16 <del>take take</del> precedence ) [3]
	M	3/12	• using mechanical resonant generators, e.g. strings or <del>percussive</del> <i>percussion</i> instruments, the tones of which are picked up by electromechanical transducers, the electrical signals being further manipulated or amplified and subsequently converted to sound by a loudspeaker or equivalent <del>instrument</del> <i>device</i> [3]
	M	3/18	• . . . using <del>a-string</del> <i>strings</i> , e.g. electric <del>guitar</del> <i>guitars</i> [3]
	M	5/14	• using electromechanical <del>resonator</del> <i>resonators</i> , e.g. quartz <del>erystal</del> <i>crystals</i> , as frequency-determining <del>element</del> <i>elements</i> [3]
	M	5/16	• using cathode ray <del>tube</del> <i>tubes</i> [3]

G10K			[Session: CE41, Project/Projet: M110]
	M	Title	SOUND-PRODUCING DEVICES ( sound-producing toys A63H 5/00 <del>;-musical instruments or parts thereof, see the relevant subclass, e.g. G10D-);</del> <i>METHODS OR DEVICES FOR PROTECTING AGAINST, OR FOR DAMPING, NOISE OR OTHER ACOUSTIC WAVES IN GENERAL</i> ; ACOUSTICS NOT OTHERWISE PROVIDED FOR ( <del>fluid oscillators or pulse-generators for fluid-pressure systems F45B-21/12;-systems using the reflection or reradiation of acoustic waves G01S-15/00;-generating seismic energy G01V-1/02;-signalling or calling arrangements, alarm arrangements G08B-;</del> <i>piezo-electric, electrostrictive or magnetostrictive elements in general H01L-41/00;-transmission systems using infrasonic, sonic, or ultrasonic waves H04B-11/00;-loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R-) [6]</i>
Sq30	M	1/00	Devices in which sound is produced by striking a resonating body, e.g. <del>bell, chimes, gong</del> <i>bells, chimes or gongs</i> ( combinations with clocks or watches G04B, G04C ; <i>multi-toned musical instruments G10D 13/08 ; automatic</i> carillons G10F 1/10 )
Sq40	M	9/00	Devices in which sound is produced by vibrating a diaphragm or analogous element, e.g. fog <del>horn,</del> <i>vehicle hooter,</i> <del>buzzer</del> <i>horns, vehicle hooters or buzzers</i> ( loudspeakers or like acoustic electromechanical transducers H04R )
	M	9/18	• Details, e.g. <del>bulb, pump, piston, switch, casing</del> <i>bulbs, pumps, pistons, switches or casings</i>
Sq50	M	11/00	Methods or devices for transmitting, conducting or directing sound in general ; Methods or devices for protecting against, or for damping, noise or other acoustic waves in general ( <del>sound insulation for vehicles B60R-13/08;-sound insulation for aircraft B64C-1/40;-sound-insulating materials, see the relevant places, e.g. C04B-26/00-C04B-38/00;-reduction of noise on permanent way E01B-19/00;-absorption of air-transmitted noise from road or railway traffic E01F-8/00;-noise insulation, absorption or reflection in buildings E04B-1/74;-room acoustics E04B-1/99;-sound insulation in floors E04F-15/20;-gas-flow silencers or exhaust apparatus for machines or engines in general, for internal combustion engines F01N;-intake silencers for internal combustion engines F02M-35/00;-suppression of undesired vibrations F16F-7/00-F16F-15/00;-preventing noise in valves F16K-47/02;-noise absorbers in pipes F16L-55/02;-arrangements for suppressing noise in direct contact trickle coolers F28C-1/10;-silencers for weapons F41-)</del>
	M	11/16	• Methods or devices for protecting against, <del>or damping of, acoustic waves, e.g. sound ( G10K-11/36 takes,</del> <i>or for damping, noise or other acoustic waves in general ( G10K 11/36 takes</i> precedence ) [3]
	D	Note(s) 11/16	

	M	Note(s) 11/168	When classifying in this group, classification is also made in subclass B32B, <del>in-so-far-insofar</del> as any layered product is concerned <del>-.</del> [6]
	M	11/24	. . for conducting sound through solid bodies, e.g. <del>wire</del> wires [3]
	M	11/28	. . . using reflection, e.g. parabolic <del>reflector</del> reflectors [3]

# G10L

[Session: CE41, Project/Projet: C451]

	M	Title	SPEECH ANALYSIS OR SYNTHESIS ; SPEECH RECOGNITION ( <del>sound input/output for computers G06F 3/46 ; digital data processing methods or equipment specially adapted for handling natural language data G06F 17/20 ; teaching or communicating with the blind, deaf or mute G09B 21/00 ; telephonic communication H04M</del> ) ; AUDIO ANALYSIS OR PROCESSING [4]
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N Note after title Note(s)

G10L This subclass does not cover :

- devices for the storage of speech or audio signals, which are covered by subclasses G11B and G11C; [2010.01]
- encoding of compressed speech signals for transmission or storage, which is covered by group H03M 7/30. [2010.01]

Sq40	M	11/00	Determination or detection of speech <del>or audio</del> characteristics not restricted to a single one of groups G10L 15/00-G10L 21/00 [7]
	M	11/02	. Detection of presence or absence of speech signals ( <del>switching of direction of transmission by voice frequency in two-way loud-speaking telephone systems H04M 9/10</del> ) [7]
Sq50	M	13/00	Speech synthesis ; Text to speech systems ( <del>electrophonic musical instruments G10H</del> ) [7]
	M	13/04	. . Details of speech synthesis systems, e.g. synthesiser structure, <del>or</del> memory management [7]
	M	13/08	. Text analysis or generation of parameters for speech synthesis out of text, e.g. grapheme to phoneme translation, prosody generation, <del>or</del> stress or intonation determination [7]
	M	15/08	. Speech classification or search ( <del>pattern recognition G06K 9/00</del> ) [7]
	M	15/12	. . using dynamic programming techniques, e.g. Dynamic Time Warping ( <del>DTW</del> )/[DTW] [7]
	M	15/14	. . using statistical models, e.g. Hidden Markov Models ( <del>HMM</del> )( <del>G10L 15/18 takes</del> [HMM] ( G10L 15/18 takes precedence ) [7]
	M	15/20	. Speech recognition techniques specially adapted for robustness in adverse environments, e.g. in noise, <del>or</del> of stress induced speech ( G10L 21/02 <del>takes takes</del> precedence ) [7]
Sq20	M	19/00	Speech <del>or audio signal</del> analysis-synthesis techniques for redundancy reduction, e.g. in vocoders ; Coding or decoding of speech <del>or audio signals, e.g. for compression or expansion, source-filter models or psychoacoustic analysis</del> [7]
	M	19/02	. using spectral analysis, e.g. transform vocoders, <del>or</del> subband vocoders [7]
	M	19/12	. . . Determination or coding of a code excitation, e.g. in code excited linear prediction ( <del>CELP</del> )/[CELP] vocoders [7]
	M	19/14	. . Details not provided for in groups G10L 19/06-G10L 19/12, e.g. gain coding, post filtering design, <del>or</del> vocoder structure [7]
Sq30	M	21/00	Processing of the speech signal to produce another audible or non-audible signal, e.g. visual, <del>or</del> tactile, in order to modify its quality or its intelligibility ( G10L 19/00 <del>takes takes</del> precedence ) [7]

	M	21/02	• Speech enhancement, e.g. noise reduction; <del>or</del> echo cancellation ( <i>reducing echo effects in line transmission systems H04B 3/20</i> ; echo suppression in hand-free telephones H04M 9/08 <del>±hearing-aids H04R 25/00</del> ) [7]
	M	21/06	• Transformation of speech into a non-audible representation, e.g. speech visualisation; <del>or</del> speech processing for tactile aids ( G10L 15/26 <del>takes</del> <i>takes</i> precedence ) [7]

## G12B

[Session: IB20, Project/Projet: P101]

M	Subclass index	<u>Subclass Index</u>
		SENSITIVE ELEMENTS PRODUCING MOVEMENT OR DISPLACEMENT; DETAILS OF 1/00; 3/00
		MOVEMENTS
		ADJUSTING POSITION OR ATTITUDE; COMPENSATING FOR TEMPERATURE 5/00; 7/00
		EFFECTS
		HOUSING , SUPPORTING ; INDICATING ELEMENTS 9/00; 11/00
		CALIBRATING 13/00
		COOLING ; SCREENING 15/00; 17/00
		<del>DETAILS OF APPARATUS USING SCANNING-PROBE TECHNIQUES-</del> 21/00

[Session: CE41, Project/Projet: C448]

Sq60	M	3/00	Details of movements not otherwise provided for ( <del>details of apparatus using scanning-probe techniques G12B 21/00</del> ; damping of shock or vibrations in general F16F ; avoiding out-of-balance forces F16F 15/00 ; testing balance G01M ) [1,7]
	D	21/00	(transferred to G01Q 10/00-G01Q 90/00)
	D	Note(s)	
		21/00	
	D	21/02	(transferred to G01Q 60/00-G01Q 70/00)
	D	21/04	(transferred to G01Q 60/16)
	D	21/06	(transferred to G01Q 60/22)
	D	21/08	(transferred to G01Q 60/38)
	D	21/10	(transferred to G01Q 60/54)
	D	21/12	(transferred to G01Q 60/38)
	D	21/20	(transferred to G01Q 10/00, G01Q 40/00)
	D	21/22	(transferred to G01Q 10/00)
	D	21/24	(transferred to G01Q 10/00)

## G21J

[Session: CE41, Project/Projet: D078]

	M	Title	NUCLEAR EXPLOSIVES ; APPLICATIONS THEREOF ( <del>electric or magnetic analogue computers, e.g. simulators, for nuclear physics G06G 7/54</del> )-
Sq0	M	5/00	Detection arrangements for nuclear explosions ( <del>individual measuring devices G01</del> )-

H01F			[Session: CE41, Project/Projet: M702]
N	Note(s)	Note(s)	
	1/00	Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers. [2010.01]	

H01J			[Session: CE41, Project/Projet: C448]
Sq100	M	37/00	Discharge tubes with provision for introducing objects or material to be exposed to the discharge, e.g. for the purpose of examination or processing thereof ( H01J 33/00, H01J 40/00, H01J 41/00, H01J 47/00, H01J 49/00 take precedence ; <del>investigating or analysing surface structures in atomic ranges using scanning-probe techniques G01N 13/10 ; scanning-probe techniques or apparatus G01Q ;</del> contactless testing of electronic circuits using electron beams G01R 31/305 ; <del>details of scanning-probe apparatus, in general G12B 21/00</del> ) [2,5]

H01L			[Session: CE41, Project/Projet: D011]
	M	Title	SEMICONDUCTOR DEVICES ; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR ( <del>conveying- systems for semiconductor wafers B65G 49/07 use of semiconductor devices for measuring G01 ; resistors in general H01C ; magnets, inductors, transformers H01F ; capacitors in general H01G ; electrolytic devices H01G 9/00 ; batteries, accumulators H01M ; waveguides, resonators, or lines of the waveguide type H01P ; line connectors, current collectors H01R ; stimulated-emission devices H01S ; electromechanical resonators H03H ; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R ; electric light sources in general H05B ; printed circuits, hybrid circuits, casings or constructional details of electrical apparatus, manufacture of assemblages of electrical components H05K ; use of semiconductor devices for measuring G01 ; details of scanning-probe apparatus, in general G12B 21/00 ; resistors in general H01C ; magnets, inductors, transformers H01F ; capacitors in general H01G ; electrolytic devices H01G 9/00 ; batteries, accumulators H01M ; waveguides, resonators, or lines of the waveguide type H01P ; line connectors, current collectors H01R ; stimulated-emission devices H01S ; electromechanical resonators H03H ; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R ; electric light sources in general H05B ; printed circuits, hybrid circuits, casings or constructional details of electrical apparatus, manufacture of assemblages of electrical components H05K ; use of semiconductor devices in circuits having a particular application, <u>see</u> the subclass for the application ) [2]</del>

[Session: CE41, Project/Projet: M702]			
M	Note after title	1.	This subclass <u>covers</u> :
	H01L		<ul style="list-style-type: none"> <li>electric solid state devices which are not covered by any other subclass and details thereof, and includes: semiconductor devices adapted for rectifying, amplifying, oscillating or switching; semiconductor devices sensitive to radiation; electric solid state devices using thermoelectric, superconductive, piezo-electric, electrostrictive, magnetostrictive, galvano-magnetic or bulk negative resistance effects and integrated circuit devices ; [2]</li> <li>photoresistors , magnetic field dependent resistors, field effect resistors, capacitors with potential-jump barrier, resistors with potential-jump barrier or surface barrier, incoherent light emitting diodes and thin-film or thick-film circuits ; [2]</li> <li>processes and apparatus adapted for the manufacture or treatment of such devices, except where such</li> </ul>

processes relate to single-step processes for which provision exists elsewhere --. [2]

2. In this subclass , the following terms or expressions are used with the meaning indicated:

- "wafer" means a slice of semiconductor or crystalline substrate material, which can be modified by impurity diffusion (doping), ion implantation or epitaxy, and whose active surface can be processed into arrays of discrete components or integrated circuits --; [8]
- "solid state body" means the body of material within which, or at the surface of which, the physical effects characteristic of the device occur. In thermoelectric devices, it includes all materials in the current path.

Regions in or on the body of the device (other than the solid state body itself), which exert an influence on the solid state body electrically, are considered to be "electrodes" whether or not an external electrical connection is made thereto. An electrode may include several portions and the term includes metallic regions which exert influence on the solid state body through an insulating region (e.g. capacitive coupling) and inductive coupling arrangements to the body. The dielectric region in a capacitive arrangement is regarded as part of the electrode. In arrangements including several portions, only those portions which exert an influence on the solid state body by virtue of their shape, size, or disposition or the material of which they are formed are considered to be part of the electrode. The other portions are considered to be "arrangements for conducting electric current to or from the solid state body" or "interconnections between solid state components formed in or on a common substrate", i .e.

leads --; [2]

- "device" means an electric circuit element; where an electric circuit element is one of a plurality of elements formed in or on a common substrate it is referred to as a "component" --; [2]
- "complete device" is a device in its fully assembled state which may or may not require further treatment, e.g. electroforming, before it is ready for use but which does not require the addition of further structural units --; [2]
- "parts" includes all structural units which are included in a complete device --; [2]
- "container" is an enclosure forming part of the complete device and is essentially a solid construction in which the body of the device is placed, or which is formed around the body without forming an intimate layer thereon. An enclosure which consists of one or more layers formed on the body and in intimate contact therewith is referred to as an "encapsulation" --; [2]
- "integrated circuit" is a device where all components, e.g. diodes, resistors, are built up on a common substrate and form the device including interconnections between the components --; [2]
- "assembly" of a device is the building up of the device from its component constructional units and includes the provision of fillings in containers --. [2]

3. In this subclass , both the process or apparatus for the manufacture or treatment of a device and the device itself are classified, whenever both of these are described sufficiently to be of interest --. [6]

4. *Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers. [2010.01]*

[Session: SC06, Project/Projet: A016]

Sq100	C	33/00	<b>Semiconductor devices with at least one potential-jump barrier or surface barrier specially adapted for light emission,-- e.g.-infra-red ; Processes or apparatus specially adapted for the manufacture or treatment thereof or of parts thereof ; Details thereof ( H01L 51/50-takes takes precedence ; devices consisting of a plurality of semiconductor components</b>
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			<p><b>formed in or on a common substrate and including semiconductor components with at least one potential-jump barrier or surface barrier, specially adapted for light emission H01L 27/15 ; semiconductor lasers H01S 5/00 ) [2,8,2010.01]</b></p>
	N	Note(s) 33/00	<p>Note(s)</p> <ol style="list-style-type: none"> <li>1. This group covers light emitting diodes [LEDs] or superluminescent diodes [SLDs], including LEDs or SLDs emitting infra-red [IR] light or ultra-violet [UV] light. [2010.01]</li> <li>2. In this group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place. [2010.01]</li> </ol>
	N	33/02	<ul style="list-style-type: none"> <li>• characterised by the semiconductor bodies [2010.01]</li> </ul>
	N	33/04	<ul style="list-style-type: none"> <li>• • with a quantum effect structure or superlattice, e.g. tunnel junction [2010.01]</li> </ul>
	N	33/06	<ul style="list-style-type: none"> <li>• • • within the light emitting region, e.g. quantum confinement structure or tunnel barrier [2010.01]</li> </ul>
	N	33/08	<ul style="list-style-type: none"> <li>• • with a plurality of light emitting regions, e.g. laterally discontinuous light emitting layer or photoluminescent region integrated within the semiconductor body (H01L 27/15 takes precedence) [2010.01]</li> </ul>
	N	33/10	<ul style="list-style-type: none"> <li>• • with a light reflecting structure, e.g. semiconductor Bragg reflector [2010.01]</li> </ul>
	N	33/12	<ul style="list-style-type: none"> <li>• with a stress relaxation structure, e.g. buffer layer [2010.01]</li> </ul>
	N	33/14	<ul style="list-style-type: none"> <li>• • with a carrier transport control structure, e.g. highly-doped semiconductor layer or current-blocking structure [2010.01]</li> </ul>
	N	33/16	<ul style="list-style-type: none"> <li>• • with a particular crystal structure or orientation, e.g. polycrystalline, amorphous or porous [2010.01]</li> </ul>
	N	33/18	<ul style="list-style-type: none"> <li>• • • within the light emitting region [2010.01]</li> </ul>
	N	Note(s) 33/18	<p>Note(s)</p> <p>When classifying in this group, classification is also made in group H01L 33/26 or one of its subgroups in order to identify the chemical composition of the light emitting region. [2010.01]</p>
	N	33/20	<ul style="list-style-type: none"> <li>• • with a particular shape, e.g. curved or truncated substrate [2010.01]</li> </ul>
	N	33/22	<ul style="list-style-type: none"> <li>• • • Roughened surfaces, e.g. at the interface between epitaxial layers [2010.01]</li> </ul>
	N	33/24	<ul style="list-style-type: none"> <li>• • • of the light emitting region, e.g. non-planar junction [2010.01]</li> </ul>
	N	33/26	<ul style="list-style-type: none"> <li>• • Materials of the light emitting region [2010.01]</li> </ul>
	N	33/28	<ul style="list-style-type: none"> <li>• • • containing only elements of group II and group VI of the periodic system [2010.01]</li> </ul>
	N	33/30	<ul style="list-style-type: none"> <li>• • • containing only elements of group III and group V of the periodic system [2010.01]</li> </ul>
	N	33/32	<ul style="list-style-type: none"> <li>• • • • containing nitrogen [2010.01]</li> </ul>
	N	33/34	<ul style="list-style-type: none"> <li>• • • containing only elements of group IV of the periodic system [2010.01]</li> </ul>
	N	33/36	<ul style="list-style-type: none"> <li>• characterised by the electrodes [2010.01]</li> </ul>
	N	33/38	<ul style="list-style-type: none"> <li>• • with a particular shape [2010.01]</li> </ul>
	N	33/40	<ul style="list-style-type: none"> <li>• • Materials therefor [2010.01]</li> </ul>
	N	33/42	<ul style="list-style-type: none"> <li>• • • Transparent materials [2010.01]</li> </ul>
	N	33/44	<ul style="list-style-type: none"> <li>• characterised by the coatings, e.g. passivation layer or anti-reflective coating [2010.01]</li> </ul>
	N	33/46	<ul style="list-style-type: none"> <li>• • Reflective coating, e.g. dielectric Bragg reflector [2010.01]</li> </ul>
	N	33/48	<ul style="list-style-type: none"> <li>• characterised by the semiconductor body packages [2010.01]</li> </ul>
	N	Note(s) 33/48	<p>Note(s)</p> <p>This group covers elements in intimate contact with the semiconductor body or integrated with the package. [2010.01]</p>

	N	33/50	• • Wavelength conversion elements [2010.01]
	N	33/52	• • Encapsulations [2010.01]

[Session: IB20, Project/Projet: P102]

	N	33/54	• • • having a particular shape [2010.01]
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[Session: SC06, Project/Projet: A016]

	N	33/56	• • • Materials, e.g. epoxy or silicone resin [2010.01]
	N	33/58	• • Optical field-shaping elements [2010.01]
	N	33/60	• • • Reflective elements [2010.01]
	N	33/62	• • Arrangements for conducting electric current to or from the semiconductor body, e.g. leadframe, wire-bond or solder balls [2010.01]
	N	33/64	• • Heat extraction or cooling elements [2010.01]

H01M

[Session: SC06, Project/Projet: A008]

	N	4/13	• • Electrodes for accumulators with non-aqueous electrolyte, e.g. for lithium-accumulators; Processes of manufacture thereof [2010.01]
	N	Note(s) 4/13	Note(s)  This group <u>does not cover</u> electrodes for accumulators working at high temperatures, e.g. molten sodium electrodes, which subject matter is classified in group H01M 10/39. [2010.01]
	N	4/131	• • • Electrodes based on mixed oxides or hydroxides, or on mixtures of oxides or hydroxides, e.g. LiCoOx [2010.01]
	N	4/1315	• • • • containing halogen atoms, e.g. LiCoOxFy [2010.01]
	N	4/133	• • • Electrodes based on carbonaceous material, e.g. graphite-intercalation compounds or CFx [2010.01]
	N	4/134	• • • Electrodes based on metals, Si or alloys [2010.01]
	N	4/136	• • • Electrodes based on inorganic compounds other than oxides or hydroxides, e.g. sulfides, selenides, tellurides, halogenides or LiCoFy [2010.01]
	N	4/137	• • • Electrodes based on electro-active polymers [2010.01]
	N	4/139	• • • Processes of manufacture [2010.01]
	N	4/1391	• • • • of electrodes based on mixed oxides or hydroxides, or on mixtures of oxides or hydroxides, e.g. LiCoOx [2010.01]
	N	4/13915	• • • • • containing halogen atoms, e.g. LiCoOxFy [2010.01]
	N	4/1393	• • • • of electrodes based on carbonaceous material, e.g. graphite-intercalation compounds or CFx [2010.01]
	N	4/1395	• • • • of electrodes based on metals, Si or alloys [2010.01]
	N	4/1397	• • • • of electrodes based on inorganic compounds other than oxides or hydroxides, e.g. sulfides, selenides, tellurides, halogenides or LiCoFy [2010.01]
	N	4/1399	• • • • of electrodes based on electro-active polymers [2010.01]
	C	4/48	• • • of inorganic oxides or hydroxides [2,2010.01]
	N	4/485	• • • • of mixed oxides or hydroxides for inserting or intercalating light metals, e.g. LiTi <sub>2</sub> O <sub>4</sub> or LiTi <sub>2</sub> OxFy (H01M 4/505, H01M



			4/525 take precedence) [2010.01]
C	4/50		. . . . of manganese [2,2010.01]
N	4/505		. . . . of mixed oxides or hydroxides containing manganese for inserting or intercalating light metals, e.g. $\text{LiMn}_2\text{O}_4$ or $\text{LiMn}_2\text{OxFy}$ [2010.01]
C	4/52		. . . . of nickel, cobalt, or iron [2,2010.01]
N	4/525		. . . . of mixed oxides or hydroxides containing iron, cobalt or nickel for inserting or intercalating light metals, e.g. $\text{LiNiO}_2$ , $\text{LiCoO}_2$ or $\text{LiCoOxFy}$ [2010.01]
C	4/58		. . . of inorganic compounds other than oxides or hydroxides, e.g. sulfides, selenides, tellurides, halogenides or $\text{LiCoFy}$ [2,2010.01]
N	4/583		. . . Carbonaceous material, e.g. graphite-intercalation compounds or $\text{CFx}$ [2010.01]
N	4/587		. . . . for inserting or intercalating light metals [2010.01]
N	10/05		. Accumulators with non-aqueous electrolyte (H01M 10/39 takes precedence) [2010.01]
N	10/052		. . Li-accumulators [2010.01]
N	10/0525		. . . Rocking-chair batteries, i.e. batteries with lithium insertion or intercalation in both electrodes; Lithium-ion batteries [2010.01]
N	10/054		. . Accumulators with insertion or intercalation of metals other than lithium, e.g. with magnesium or aluminium [2010.01]
N	10/056		. . characterized by the materials used as electrolytes, e.g. mixed inorganic/organic electrolytes [2010.01]
N	10/0561		. . . the electrolyte being constituted of inorganic materials only [2010.01]
N	10/0562		. . . . Solid materials [2010.01]
N	10/0563		. . . . Liquid materials, e.g. for $\text{Li-SOCl}_2$ cells [2010.01]
N	10/0564		. . . the electrolyte being constituted of organic materials only [2010.01]
N	10/0565		. . . . Polymeric materials, e.g. gel-type or solid-type [2010.01]
N	10/0566		. . . . Liquid materials [2010.01]
N	10/0567		. . . . characterised by the additives [2010.01]
N	10/0568		. . . . characterised by the solutes [2010.01]
N	10/0569		. . . . characterised by the solvents [2010.01]
N	10/058		. . Construction or manufacture [2010.01]
N	10/0583		. . . of accumulators with folded construction elements except wound ones, i.e. folded positive or negative electrodes or separators, e.g. with "Z"-shaped electrodes or separators [2010.01]
N	10/0585		. . . of accumulators having only flat construction elements, i.e. flat positive electrodes, flat negative electrodes and flat separators [2010.01]
N	10/0587		. . . of accumulators having only wound construction elements, i.e. wound positive electrodes, wound negative electrodes and wound separators [2010.01]
CU	10/36		. Accumulators not provided for in groups <del>H01M 10/06</del> <del>H01M 10/34</del> H01M 10/05-H01M 10/34 [2,2010.01]
D	10/40		(transferred to H01M 10/05)

H01S

[Session: CE41, Project/Projet: M702]

N Note(s)

Note(s)

H03K			[Session: IB20, Project/Projet: P101]
	M	17/96	• • Touch switches ( specially adapted for electronic time-pieces with no moving parts <del>G04G 1/40</del> <i>G04G 21/08</i> ) [3]

  

H04M			[Session: CE41, Project/Projet: M103]
	M	Title	TELEPHONIC COMMUNICATION ( <del>counting mechanisms G06M</del> ; circuits for controlling other apparatus <del>via a</del> telephone cable and not involving telephone switching apparatus G08 ; <del>reels or other take-up devices for cords H02G 11/00</del> ; <del>multiplex transmission between switching centres H04J</del> ; <del>selecting arrangements H04Q</del> ; <del>loudspeakers, microphones, gramophone pick-ups or like electromechanical transducers H04R</del> ; <del>wireless communication networks H04W</del> )
M	Note after title	H04M	<p>1. This subclass <u>covers</u> :</p> <ul style="list-style-type: none"> <li>• telephonic communication systems combined with other electrical systems;</li> <li>• testing arrangements <del>peculiar to</del> <i>specially adapted for</i> telephonic communication systems.</li> </ul> <p>2. In this subclass , the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> <li>• "subscriber" is a general term for terminal equipment, e.g. <del>telephone</del> <i>telephones</i> for public use;</li> <li>• "substation" means <del>a</del> subscriber or monitoring equipment which may connect a single subscriber to a line without choice as to subscriber;</li> <li>• "satellite" is a type of exchange the operation of which depends upon control signals received from a supervisory exchange;</li> <li>• "switching centres" includes exchanges and satellites.</li> </ul>
M	Subclass index		<p><u>Subclass Index</u></p> <p>TELEPHONIC SYSTEMS</p> <p>Combined ; party-line systems; prepayment systems 11/00 ; 13/00; 17/00</p> <p><del>EQUIPMENTS</del> <i>EQUIPMENT</i> AND ARRANGEMENTS</p> <p><del>Equipments</del> <i>Equipment</i> 1/00</p> <p>Exchanges : automatic ; manual 3/00; 5/00</p> <p>Interconnection arrangements: centralised; non-centralised 7/00; 9/00</p> <p>Monitoring and control ; supply arrangements 15/00; 19/00</p> <p>SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS 99/00</p>
Sq70	M	1/00	Substation equipment, e.g. for use by subscribers ( subscriber services or facilities provided at exchanges H04M 3/00 ; prepayment telephone coin boxes H04M 17/00 ; current supply arrangements H04M 19/08 ; <del>keyboard switches in general H01H 13/70, H03K 17/94</del> ) [1,7]
	M	1/03	• • Constructional features of telephone transmitters or receivers, e.g. telephone hand-sets ( <del>transducers in general H04R 1/00</del> ) - [2]
	M	1/04	• • Supports for telephone transmitters or receivers ( <del>for transducers in general H04R 1/00</del> ) -
	M	1/05	• • <i>specially</i> adapted for use on head, throat, or breast

	M	1/08	• • • associated with switches operated by <del>weight of</del> <i>the weight of the</i> receiver or hand-set
	M	1/15	• • <del>Protection</del> <i>Protecting</i> or guiding telephone cords <del>( devices specially adapted or mounted for storing and repeatedly paying out and restoring lengths of material B65H 75/34 ; in general H02G 11/00 )</del> [5]
	M	1/18	• Telephone <del>sets modified</del> <i>sets specially adapted</i> for use in ships, mines, or other places exposed to adverse environment ( H04M 1/19 <del>takes precedence</del> ; telephone cabinets E04H 1/14 <i>takes precedence</i> )
	M	1/19	• • Arrangements of transmitters, receivers, or complete sets to prevent eavesdropping, to attenuate local noise or to prevent undesired transmission ; <del>Special mouthpieces or receivers</del> <i>Mouthpieces or receivers specially adapted</i> therefor ( circuit arrangements for preventing eavesdropping H04M 1/68 ; telephone cabinets E04H 1/14 )
	M	1/21	• • Combinations with auxiliary equipment, e.g. with <del>clock, with memoranda pad</del> <i>clocks or memoranda pads</i>
	M	1/22	• • <del>Illuminating</del> <i>Illumination</i> ; Arrangements for improving <i>the</i> visibility of characters on dials
	M	1/24	• Arrangements for testing <del>( measuring electric values G01R ; testing transducers H04R 29/00 )</del>
	M	1/253	• Telephone sets using digital voice transmission <del>( simultaneous speech and data transmission H04M 11/06 )</del> [7]
	M	1/26	• Devices for calling a subscriber ( H04M 1/66 <del>takes precedence</del> ; coding in connection with keyboards or like devices, in general H03M 11/00 <i>takes precedence</i> ) [1,7]
	M	1/274	• • • with provision for storing more than one subscriber number at a time, <del>e.g. using toothed disc</del> [2]
	M	1/2745	• • • using static electronic memories, i.e. memories whose operation does not require relative movement between storage means and a transducer, e.g. <del>chip</del> <i>chips</i> [7]
	M	1/515	• • by generating or selecting <del>ether signals</del> <i>signals other</i> than trains of pulses of similar shape <del>or other signals, or signals other</del> than currents of one or more different frequencies, e.g. generation of dc signals of alternating polarity, coded pulses, <i>or</i> impedance dialling [2]
	M	1/52	• • Arrangements wherein a dial or <del>equivalent</del> <i>the like</i> is mechanically coupled to a line selector
	M	1/54	• • • Arrangements wherein a dial or <del>equivalent</del> <i>the like</i> generates identifying signals, e.g. in party-line systems [2]
	M	1/58	• Anti-side-tone circuits <del>( hybrid circuits for carrier frequency operation H04B 1/00 )</del>
	M	1/677	• • Preventing the dialling or sending of predetermined telephone numbers or selected types of telephone numbers, e.g. long distance <i>numbers</i> [7]
	M	1/737	• • characterised by transmission of electromagnetic waves other than radio waves, e.g. infra-red <i>waves</i> [7]
	M	1/76	• • Compensating for differences in line impedance <del>( in general H04B )</del>
	M	1/78	• Circuit arrangements in which low-frequency speech signals proceed in one direction on the line, while speech signals proceeding in the other direction on the line are modulated on a high-frequency carrier signal <del>( repeater circuits H04B 3/38 )</del> [2]
	M	3/02	• <del>Ringling or otherwise calling substations</del> <i>Calling substations, e.g. by ringing</i> ( selective calling H04Q )
	M	3/04	• • <del>calling signal supplied from</del> <i>the calling signal being supplied from the</i> final selector
	M	3/06	• • <del>calling signal supplied from</del> <i>the calling signal being supplied from the</i> subscriber's line circuit
	M	3/10	• • <del>providing</del> <i>Providing</i> fault- or trouble-signals
	M	3/22	• <del>Supervisory, monitoring, or testing arrangements</del> <i>Arrangements for supervision, monitoring or testing</i>
	M	3/34	• • • Testing for cross-talk <del>( in lines generally H04B )</del>
	M	3/36	• • Statistical metering, e.g. recording occasions when traffic exceeds capacity of trunks <del>( digital computers for evaluating statistical data G06F 17/18 )</del>
	M	3/487	• • Arrangements for providing information services, e.g. recorded voice services, <del>time announcement</del> <i>or time</i>

announcements [7]

	M	3/60	• Semi-automatic systems, i.e. <i>systems</i> in which the numerical selection of the outgoing line is under the control of an operator
	M	5/12	• <del>Ringin</del> <i>g or otherwise calling substations</i> <i>Calling substations, e.g. by ringing</i>
	M	5/20	• • <del>Number-indicating arrangements for</del> <i>Arrangements for indicating the numbers of the incoming lines</i>
Sq50	M	7/00	<del>Interconnection arrangements</del> <i>Arrangements for interconnection between switching centres (transmission-arrangements in general H04B)</i>
	U	7/06	• using auxiliary connections for control or supervision
	M	7/12	• for working between exchanges having different types of switching equipment, e.g. power-driven and step by step; <i>or</i> decimal and non-decimal
Sq60	M	9/00	<del>Interconnection arrangements</del> <i>Arrangements for interconnection not involving centralised switching</i>
	M	9/08	• Two-way loud-speaking telephone systems with means for <del>suppressing echoes or otherwise conditioning</del> <i>conditioning the signal, e.g. for suppressing echoes</i> for one or <del>other direction of traffic (for line transmission in general H04B 3/20)</del> <i>both directions of traffic</i>
Sq20	M	11/00	<b>Telephonic communication systems</b> <i>specially</i> adapted for combination with other electrical systems
	M	11/02	• with bell or annunciator systems <del>(such systems in general G08)</del>
	M	11/04	• with <del>fire, police, burglar, or other alarm systems (such systems in general G08)</del> <i>alarm systems, e.g. fire, police or burglar alarm systems</i>
	M	11/06	• Simultaneous speech and <del>telegraphic or other data</del> <i>data transmission, e.g. telegraphic</i> transmission over the same conductors <del>(transmission of digital information in general H04L)</del>
	M	11/08	• <i>specially</i> adapted for optional reception of entertainment or informative matter <del>(systems in which the information is continuously available on a carrier over the whole network H04H 20/81)</del>
	M	11/10	• with dictation recording and playback systems <del>(such systems in general G11B)</del>
Sq10	M	15/00	<del>Metering arrangements ; Time-controlling arrangements ; Time-indicating arrangements</del> <i>Arrangements for metering, time-control or time-indication</i>
	M	15/02	• Severing connection after a predetermined time
	M	15/06	• • Recording class or number of calling <del>or of party</del> <i>or</i> called party
	M	15/26	• • <del>Meter at</del> <i>with a meter at the exchange</i> controlled by <i>an</i> operator
	M	15/30	• • <del>Meter not controlled from</del> <i>the meter not being controlled from an exchange</i>
	M	15/38	• Metering by apparatus <del>not of the</del> <i>other than</i> mechanical step-by-step counter type
	M	17/02	• Coin-freed or check-freed systems <del>(coin-freed or check-freed apparatus in general G07F)</del>
	M	19/02	• providing ringing current or supervisory tones, e.g. dialling tone; <i>or</i> busy tone
	M	19/04	• • <del>Ringin</del> <i>g current generated at substation</i> <i>the ringing current being generated at the substations</i>
	M	19/06	• <del>Current supply source</del> <i>in which current supply sources</i> at subordinate switching <del>centre charged from</del> <i>centres are charged from the main exchange</i>
	M	19/08	• <del>Current supply source at substation ( battery saving arrangements for cordless telephones H04M 1/73 )</del> <i>with current supply sources at the substations ( generating ringing current H04M 19/04 )</i> [1,7]

H04R			[Session: CE41, Project/Projet: M110]
	M	3/12	• for distributing signals to two or more <del>loud-speakers</del> <i>loudspeakers</i>
	MU	5/02	• Spatial or constructional arrangements of <del>loud-speakers</del> <i>loudspeakers</i>
	M	9/06	• <del>Loud-speakers</del> <i>Loudspeakers</i>
	M	11/02	• <del>Loud-speakers</del> <i>Loudspeakers</i>
	M	19/02	• <del>Loud-speakers ( H04R 19/01 takes</del> <i>Loudspeakers ( H04R 19/01 takes precedence )</i> [3]
Sq20	M	27/00	Public address systems ( circuits for preventing acoustic reaction H04R 3/02 ; circuits for distributing signals to <del>loud-speakers</del> <i>loudspeakers</i> H04R 3/12 ; amplifiers H03F )