

Symbol	Typ	Titel
H	Sektion	SECTION H — ELECTRICITY
H01	Klasse	BASIC ELECTRIC ELEMENTS
H01M	Unterklasse	PROCESSES OR MEANS, e.g. BATTERIES, FOR THE DIRECT CONVERSION OF CHEMICAL ENERGY INTO ELECTRICAL ENERGY (electrochemical processes or apparatus in general C25; semiconductor or other solid state devices for converting light or heat into electrical energy H01L, e.g. H01L 31/00, H01L 35/00, H01L 37/00) [2]
H01M 2/00	Hauptgruppe	Constructional details, or processes of manufacture, of the non-active parts [2]
H01M 2/02	1-Punkt Untergruppe	. Cases, jackets, or wrappings (working of plastics or substances in a plastic state B29) [2]
H01M 2/04	2-Punkt Untergruppe	. . Lids or covers [2]
H01M 2/06	2-Punkt Untergruppe	. . Arrangements for introducing electric connectors into or through cases [2]
H01M 2/08	2-Punkt Untergruppe	. . Sealing materials [2]
H01M 2/10	1-Punkt Untergruppe	. Mountings; Suspension devices; Shock absorbers; Transport or carrying devices; Holders (structural combination of accumulators with charging apparatus H01M 10/46) [2]
H01M 2/12	1-Punkt Untergruppe	. Vent plugs or other mechanical arrangements for facilitating escape of gases [2]
H01M 2/14	1-Punkt Untergruppe	. Separators; Membranes; Diaphragms; Spacing elements [2]
H01M 2/16	2-Punkt Untergruppe	. . characterised by the material [2]
H01M 2/18	2-Punkt Untergruppe	. . characterised by the shape [2]
H01M 2/20	1-Punkt Untergruppe	. Current-conducting connections for cells [2]
H01M 2/22	2-Punkt Untergruppe	. . Fixed connections, i.e. not intended for disconnection [2]
H01M 2/24	3-Punkt Untergruppe	. . . Intercell connections through partitions, e.g. in a battery case [2]
H01M 2/26	3-Punkt Untergruppe	. . . Electrode connections [2]
H01M 2/28	4-Punkt Untergruppe	 for lead-acid accumulators [2]
H01M 2/30	2-Punkt Untergruppe	. . Terminals [2]
H01M 2/32	2-Punkt Untergruppe	. . Methods or arrangements for affording protection against corrosion; Selection of materials therefor [2]
H01M 2/34	2-Punkt Untergruppe	. . with provision for preventing undesired use or discharge [2]
H01M 2/36	1-Punkt Untergruppe	. Arrangements for filling, topping-up or emptying cases with or of liquid, e.g. for filling with electrolytes, for washing-out [2]
H01M 2/38	1-Punkt Untergruppe	. Arrangements for moving electrolytes [2]
H01M 2/40	2-Punkt Untergruppe	. . with external circulating path (H01M 8/04 takes precedence) [2]
H01M 4/00	Hauptgruppe	Electrodes (electrodes for electrolytic processes C25) [2]
H01M 4/02	1-Punkt Untergruppe	. Electrodes composed of, or comprising, active material [2]
H01M 4/04	2-Punkt Untergruppe	. . Processes of manufacture in general [2]
H01M 4/06	2-Punkt Untergruppe	. . Electrodes for primary cells [2]
H01M 4/08	3-Punkt Untergruppe	. . . Processes of manufacture [2]
H01M 4/10	4-Punkt Untergruppe	 of pressed electrodes with central core, i.e. dollies [2]

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H01M 4/12	4-Punkt Untergruppe	 of consumable metal or alloy electrodes (use of alloy compositions as active materials H01M 4/38) [2]
H01M 4/14	2-Punkt Untergruppe	. . Electrodes for lead-acid accumulators [2]
H01M 4/16	3-Punkt Untergruppe	. . . Processes of manufacture [2]
H01M 4/18	4-Punkt Untergruppe	 of Plante electrodes [2]
H01M 4/20	4-Punkt Untergruppe	 of pasted electrodes [2]
H01M 4/21	5-Punkt Untergruppe	 Drying of pasted electrodes [2]
H01M 4/22	4-Punkt Untergruppe	 Forming of electrodes [2]
H01M 4/23	5-Punkt Untergruppe	 Drying or preserving electrodes after forming [2]
H01M 4/24	2-Punkt Untergruppe	. . Electrodes for alkaline accumulators [2]
H01M 4/26	3-Punkt Untergruppe	. . . Processes of manufacture [2]
H01M 4/28	4-Punkt Untergruppe	 Precipitating active material on the carrier [2]
H01M 4/29	5-Punkt Untergruppe	 by electrochemical methods [2]
H01M 4/30	4-Punkt Untergruppe	 Pressing [2]
H01M 4/32	3-Punkt Untergruppe	. . . Nickel oxide or hydroxide electrodes [2]
H01M 4/34	3-Punkt Untergruppe	. . . Silver oxide or hydroxide electrodes [2]
H01M 4/36	2-Punkt Untergruppe	. . Selection of substances as active materials, active masses, active liquids [2]
H01M 4/38	3-Punkt Untergruppe	. . . of elements or alloys [2]
H01M 4/40	4-Punkt Untergruppe	 Alloys based on alkali metals [2]
H01M 4/42	4-Punkt Untergruppe	 Alloys based on zinc [2]
H01M 4/44	4-Punkt Untergruppe	 Alloys based on cadmium [2]
H01M 4/46	4-Punkt Untergruppe	 Alloys based on magnesium or aluminium [2]
H01M 4/48	3-Punkt Untergruppe	. . . of inorganic oxides or hydroxides [2]
H01M 4/50	4-Punkt Untergruppe	 of manganese [2]
H01M 4/52	4-Punkt Untergruppe	 of nickel, cobalt, or iron [2]
H01M 4/54	4-Punkt Untergruppe	 of silver [2]
H01M 4/56	4-Punkt Untergruppe	 of lead [2]
H01M 4/57	5-Punkt Untergruppe	 of "grey lead", i.e. powders containing lead and lead oxide [2]
H01M 4/58	3-Punkt Untergruppe	. . . of inorganic compounds other than oxides or hydroxides [2]
H01M 4/60	3-Punkt Untergruppe	. . . of organic compounds [2]
H01M 4/62	2-Punkt Untergruppe	. . Selection of inactive substances as ingredients for active masses, e.g. binders, fillers [2]
H01M 4/64	2-Punkt Untergruppe	. . Carriers or collectors [2]
H01M 4/66	3-Punkt Untergruppe	. . . Selection of materials [2]

Symbol	Typ	Titel
H01M 4/68	4-Punkt Untergruppe	 for use in lead-acid accumulators [2]
H01M 4/70	3-Punkt Untergruppe	. . . characterised by shape or form [2]
H01M 4/72	4-Punkt Untergruppe	 Grids [2]
H01M 4/73	5-Punkt Untergruppe	 for lead-acid accumulators, e.g. frame plates [2]
H01M 4/74	5-Punkt Untergruppe	 Meshes or woven material; Expanded metal [2]
H01M 4/75	4-Punkt Untergruppe	 Wires, rods, or strips [2]
H01M 4/76	4-Punkt Untergruppe	 Containers for holding the active material, e.g. tubes, capsules [2]
H01M 4/78	4-Punkt Untergruppe	 Shapes other than plane or cylindrical, e.g. helical [2]
H01M 4/80	4-Punkt Untergruppe	 Porous plates, e.g. sintered carriers [2]
H01M 4/82	3-Punkt Untergruppe	. . . Multi-step processes for manufacturing carriers for lead-acid accumulators (single-step processes, <u>see</u> the relevant subclasses, e.g. B21D, B22D) [2]
H01M 4/84	4-Punkt Untergruppe	 involving casting [2]
H01M 4/86	1-Punkt Untergruppe	. Inert electrodes with catalytic activity, e.g. for fuel cells [2]
H01M 4/88	2-Punkt Untergruppe	. . Processes of manufacture [2]
H01M 4/90	2-Punkt Untergruppe	. . Selection of catalytic material [2]
H01M 4/92	3-Punkt Untergruppe	. . . Metals of platinum group (H01M 4/94 takes precedence) [2]
H01M 4/94	2-Punkt Untergruppe	. . Non-porous diffusion electrodes, e.g. palladium membranes, ion exchange membranes [2]
H01M 4/96	2-Punkt Untergruppe	. . Carbon-based electrodes [2]
H01M 4/98	2-Punkt Untergruppe	. . Raney-type electrodes [2]
H01M 6/00	Hauptgruppe	Primary cells; Manufacture thereof [2]
H01M 6/02	1-Punkt Untergruppe	. Details (of non-active parts H01M 2/00, of electrodes H01M 4/00) [2]
H01M 6/04	1-Punkt Untergruppe	. Cells with aqueous electrolyte [2]
H01M 6/06	2-Punkt Untergruppe	. . Dry cells, i.e. cells wherein the electrolyte is rendered non-fluid [2]
H01M 6/08	3-Punkt Untergruppe	. . . with cup-shaped electrodes [2]
H01M 6/10	3-Punkt Untergruppe	. . . with wound or folded electrodes [2]
H01M 6/12	3-Punkt Untergruppe	. . . with flat electrodes [2]
H01M 6/14	1-Punkt Untergruppe	. Cells with non-aqueous electrolyte [2]
H01M 6/16	2-Punkt Untergruppe	. . with organic electrolyte (H01M 6/18 takes precedence) [2]
H01M 6/18	2-Punkt Untergruppe	. . with solid electrolyte [2]
H01M 6/20	3-Punkt Untergruppe	. . . working at high temperature (deferred-action thermal cells H01M 6/36) [2]
H01M 6/22	1-Punkt Untergruppe	. Immobilising of electrolyte [2]
H01M 6/24	1-Punkt Untergruppe	. Cells comprising two different electrolytes [2]

Symbol	Typ	Titel
H01M 6/26	1-Punkt Untergruppe	. Cells without oxidising active material, e.g. Volta cells [2]
H01M 6/28	1-Punkt Untergruppe	. Standard cells, e.g. Weston cells [2]
H01M 6/30	1-Punkt Untergruppe	. Deferred-action cells [2]
H01M 6/32	2-Punkt Untergruppe	. . activated through external addition of electrolyte or of electrolyte components [2]
H01M 6/34	3-Punkt Untergruppe	. . . Immersion cells, e.g. sea-water cells [2]
H01M 6/36	2-Punkt Untergruppe	. . containing electrolyte and made operational by physical means, e.g. thermal cells (thermoelectric solid state devices H01L 35/00, H01L 37/00) [2]
H01M 6/38	3-Punkt Untergruppe	. . . by mechanical means [2]
H01M 6/40	1-Punkt Untergruppe	. Printed batteries [2]
H01M 6/42	1-Punkt Untergruppe	. Grouping of primary cells into batteries (H01M 6/40 takes precedence) [2]
H01M 6/44	2-Punkt Untergruppe	. . of tubular or cup-shaped cells [2]
H01M 6/46	2-Punkt Untergruppe	. . of flat cells [2]
H01M 6/48	3-Punkt Untergruppe	. . . with bipolar electrodes [2]
H01M 6/50	1-Punkt Untergruppe	. Methods or arrangements for servicing or maintenance, e.g. maintaining operating temperature [2]
H01M 6/52	1-Punkt Untergruppe	. Reclaiming serviceable parts of waste cells or batteries [2]
H01M 8/00	Hauptgruppe	Fuel cells; Manufacture thereof [2]
H01M 8/02	1-Punkt Untergruppe	. Details (of non-active parts H01M 2/00, of electrodes H01M 4/00) [2]
H01M 8/04	1-Punkt Untergruppe	. Auxiliary arrangements or processes, e.g. for control of pressure, for circulation of fluids [2]
H01M 8/06	1-Punkt Untergruppe	. Combination of fuel cell with means for production of reactants or for treatment of residues (regenerative fuel cells H01M 8/18; production of reactants <u>per se</u> , <u>see</u> sections B or C) [2]
H01M 8/08	1-Punkt Untergruppe	. Fuel cells with aqueous electrolytes [2]
H01M 8/10	1-Punkt Untergruppe	. Fuel cells with solid electrolytes [2]
H01M 8/12	2-Punkt Untergruppe	. . operating at high temperature, e.g. with stabilised ZrO ₂ electrolyte [2]
H01M 8/14	1-Punkt Untergruppe	. Fuel cells with fused electrolytes [2]
H01M 8/16	1-Punkt Untergruppe	. Biochemical fuel cells, i.e. cells in which micro-organisms function as catalysts [2]
H01M 8/18	1-Punkt Untergruppe	. Regenerative fuel cells [2]
H01M 8/20	1-Punkt Untergruppe	. Indirect fuel cells, e.g. redox cells (H01M 8/18 takes precedence) [2]
H01M 8/22	1-Punkt Untergruppe	. Fuel cells in which the fuel is based on materials comprising carbon or oxygen or hydrogen and other elements; Fuel cells in which the fuel is based on materials comprising only elements other than carbon, oxygen, or hydrogen [2]
H01M 8/24	1-Punkt Untergruppe	. Grouping of fuel cells into batteries, e.g. modules [2]
H01M 10/00	Hauptgruppe	Secondary cells; Manufacture thereof [2]
H01M 10/02	1-Punkt Untergruppe	. Details (of non-active parts H01M 2/00, of electrodes H01M 4/00) [2]
H01M 10/04	1-Punkt Untergruppe	. Construction or manufacture in general (H01M 10/12, H01M 10/28, H01M 10/38 take precedence) [2]

Symbol	Typ	Titel
H01M 10/06	1-Punkt Untergruppe	. Lead-acid accumulators (semi-lead accumulators H01M 10/20) [2]
H01M 10/08	2-Punkt Untergruppe	. . Selection of materials as electrolytes [2]
H01M 10/10	3-Punkt Untergruppe	. . . Immobilising of electrolyte [2]
H01M 10/12	2-Punkt Untergruppe	. . Construction or manufacture [2]
H01M 10/14	3-Punkt Untergruppe	. . . Assembling a group of electrodes or separators [2]
H01M 10/16	3-Punkt Untergruppe	. . . Suspending or supporting electrodes or groups of electrodes in the case [2]
H01M 10/18	2-Punkt Untergruppe	. . with bipolar electrodes [2]
H01M 10/20	1-Punkt Untergruppe	. Semi-lead accumulators, i.e. accumulators in which only one electrode contains lead [2]
H01M 10/22	2-Punkt Untergruppe	. . Selection of materials as electrolytes [2]
H01M 10/24	1-Punkt Untergruppe	. Alkaline accumulators [2]
H01M 10/26	2-Punkt Untergruppe	. . Selection of materials as electrolytes [2]
H01M 10/28	2-Punkt Untergruppe	. . Construction or manufacture [2]
H01M 10/30	2-Punkt Untergruppe	. . Nickel accumulators (H01M 10/34 takes precedence) [2]
H01M 10/32	2-Punkt Untergruppe	. . Silver accumulators (H01M 10/34 takes precedence) [2]
H01M 10/34	1-Punkt Untergruppe	. Gastight accumulators [2]
H01M 10/36	1-Punkt Untergruppe	. Accumulators not provided for in groups H01M 10/06-H01M 10/34 [2]
H01M 10/38	2-Punkt Untergruppe	. . Construction or manufacture [2]
H01M 10/39	2-Punkt Untergruppe	. . working at high temperature [2]
H01M 10/40	2-Punkt Untergruppe	. . with organic electrolytes [2]
H01M 10/42	1-Punkt Untergruppe	. Methods or arrangements for servicing or maintenance of secondary cells or secondary half-cells [2]
H01M 10/44	2-Punkt Untergruppe	. . Methods for charging or discharging (circuits for charging H02J 7/00) [2]
H01M 10/46	2-Punkt Untergruppe	. . Accumulators structurally combined with charging apparatus (circuits for charging H02J 7/00) [2]
H01M 10/48	2-Punkt Untergruppe	. . Accumulators combined with arrangements for measuring, testing, or indicating condition, e.g. level or density of the electrolyte (indicating or measuring level of liquid in general G01F 23/00; measuring density G01N, e.g. G01N 9/00; measuring electric variables G01R) [2]
H01M 10/50	2-Punkt Untergruppe	. . Heating or cooling or regulating temperature (control of temperature in general G05D 23/00) [2]
H01M 10/52	2-Punkt Untergruppe	. . Removing gases inside the secondary cell, e.g. by absorption (vent plugs or other mechanical arrangements for facilitating escape of gases H01M 2/12) [2]
H01M 10/54	1-Punkt Untergruppe	. Reclaiming serviceable parts of waste accumulators [2]
H01M 12/00	Hauptgruppe	Hybrid cells; Manufacture thereof [2]
H01M 12/02	1-Punkt Untergruppe	. Details (of non-active parts H01M 2/00, of electrodes H01M 4/00) [2]
H01M 12/04	1-Punkt Untergruppe	. composed of a half-cell of the fuel-cell type and of a half-cell of the primary-cell type (methods or arrangements for servicing or maintenance H01M 6/50) [2]
H01M 12/06	2-Punkt Untergruppe	. . with one metallic and one gaseous electrode [2]

Symbol	Typ	Titel
H01M 12/08	1-Punkt Untergruppe	. composed of a half-cell of a fuel-cell type and a half-cell of the secondary-cell type (methods or arrangements for servicing or maintenance, e.g. for charging, H01M 10/42) [2]
H01M 14/00	Hauptgruppe	Electrochemical current or voltage generators not provided for in groups H01M 6/00-H01M 12/00; Manufacture thereof [2]
H01M 16/00	Hauptgruppe	Structural combinations of different types of electrochemical generators [2]