METALLURY

C25

ELECTROLYTIC OR ELECTROPHORETIC PROCESSES; APPARATUS THEREFOR

C25B

ELECTROLYTIC OR ELECTROPHORETIC PROCESSES FOR THE PRODUCTION OF COMPOUNDS OR NON-METALS; APPARATUS THEREFOR (anodic or cathodic protection C23F 13/00; single-crystal growth C30B)

NOTES

1. In this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place.
2. Compounds of particular interest are also classified in the relevant classes, e.g. C01, C07.

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - C25B 11/06 covered by C25B 11/0442
   - C25B 11/08 covered by C25B 11/0473
   - C25B 11/10 covered by C25B 11/0442
2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Electrolytic production of inorganic compounds or non-metals
1/003 . . . by photo-electrolysis with or without external current source
1/006 . . . of silicon
1/02 . . . of hydrogen or oxygen
1/04 . . . by electrolysis of water
1/06 . . . in cells with flat or platelike electrodes
1/08 . . . of the filter-press type
1/10 . . . in diaphragm cells
1/12 . . . in pressure cells
1/13 . of ozone
1/14 . of alkali metal compounds
1/16 . . . Hydroxides
1/18 . . . of alkaline earth metal compounds or magnesium compounds
1/20 . . . Hydroxides
1/21 . . . of manganese oxides
1/22 . . . of inorganic acids
1/24 . . . of halogens or compounds thereof
1/245 . . . (Fluorine; Compounds thereof)
1/26 . . . Chlorine; Compounds thereof
1/265 . . . (Chlorates)
1/28 . . . of per-compounds
1/285 . . . (Persulfates)
1/30 . . . Peroxides
1/32 . . . Perborates
1/34 . . . simultaneous production of alkali metal hydroxides and chlorine, its oxyacids or salts
1/36 . . . in mercury cathode cells
1/38 . . . with vertical mercury cathode
1/40 . . . with horizontal mercury cathode
1/42 . . . Decomposition of amalgams
1/44 . . . . . . with the aid of catalysts
1/46 . . . in diaphragm cells
3/00 Electrolytic production of organic compounds
3/02 . . . by oxidation
3/04 . . . by reduction
3/06 . . . by halogenation
3/08 . . . by fluorination
3/10 . . . by coupling reactions, e.g. dimerisation
3/105 . . . (Hydrotidemisation)
3/12 . . . of organo-metallic compounds
5/00 Electrogenerative processes, i.e. processes for producing compounds in which simultaneously electricity is generated
7/00 Electrophoretic production of compounds or non-metals (separation or purification of peptides, e.g. of proteins, by electrophoresis C07K 1/26)
9/00 Cells or assemblies of cells; Constructional parts of cells; Assemblies of constructional parts, e.g. electrode-diaphragm assemblies
9/005 . . . (Amalgam decomposition cells)
9/02 . . . Holders for electrodes
9/04 . . . Devices for current supply (electrical connections in general H01R); Electrode connections; Electric inter-cell connections
9/045 . . . (Electric inter-cell connections including jumper switches)
9/06 . . . Cells comprising dimensionally-stable non-movable electrodes; Assemblies of constructional parts thereof
9/063 . . . [including bipolar electrodes]
9/066 . . . [and diaphragms]
9/08 . . . with diaphragms
9/10 . . . including an ion-exchange membrane in or on which electrode material is embedded
9/12 . . . Cells or assemblies of cells comprising at least one movable electrode, e.g. rotary electrodes; Assemblies of constructional parts thereof
9/125 . . . [Rotary electrodes]
9/14 . . . Liquid electrodes, e.g. mercury electrodes
9/142 . . . [of the horizontal type]
9/144 . . . [Grouping of such cells into batteries]
9/146 . . . [of the vertical type]
9/148 . . . [Grouping of such cells into batteries]
9/16 . . . Cells or assemblies of cells comprising at least one electrode made of particles; Assemblies of constructional parts thereof
9/162 . . . [comprising fluidised bed electrodes]
9/164 . . . [Grouping of such cells into batteries]
9/166 . . . [comprising static bed electrodes]
9/168 . . . [Grouping of such cells into batteries]
9/18 . . . Assemblies comprising a plurality of cells ([C25B 9/005 takes precedence]; assemblies of cells with movable electrodes C25B 9/12; assemblies of cells with electrodes made of particles C25B 9/16)
9/20 . . . of the filter-press type
9/203 . . . [with bipolar electrodes]
9/206 . . . . . [with diaphragms]

11/00 Electrodes; Manufacture thereof not otherwise provided for

11/02 . . . characterised by shape or form
11/03 . . . perforated or foraminous
11/035 . . . [Porous electrodes]
11/04 . . . characterised by the material
11/0405 . . . [of electrodes having a substrate and a coating]
11/041 . . . [characterised by the material of the substrate]
11/0415 . . . [consisting of one single element or compound]
11/0421 . . . [Silicon]
11/0426 . . . [consisting of plurality elements or compounds]
11/0431 . . . [Metal alloys]
11/0436 . . . . . [comprising metal powder and a non-metallic binder]
11/0442 . . . [characterised by the material of the coating]
11/0447 . . . [Coatings consisting of a single component]
11/0452 . . . [Non-noble metal oxides]
11/0457 . . . . . [of the spinel type]
11/0463 . . . . . [of the perouskite type]
11/0468 . . . . . [of the rutile type]
11/0473 . . . . . [Noble metals]
11/0478 . . . . . [Coatings consisting of two or more components]
11/0484 . . . . . [comprising at least a noble metal or noble metal oxide and a non-noble metal oxide]
11/0489 . . . . . [at least one of the components being an organic compound]
11/0494 . . . . . [comprising two or more noble metals or noble metal alloys]