

ECLA EUROPEAN CLASSIFICATION

C25B ELECTROLYTIC OR ELECTROPHORETIC PROCESSES FOR THE PRODUCTION OF COMPOUNDS OR NON-METALS; APPARATUS THEREFOR

[N: **WARNING**

- The following IPC groups are not used in the internal ECLA classification system. Subject matter covered by these groups is classified in the following ECLA groups:

[C25B11/06](#) covered by [B01J](#), [C25B11/04D](#)
[C25B11/08](#) covered by [B01J](#), [C25B11/04D](#)
[C25B11/10](#) covered by [C25B11/04D](#)

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Notes

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

C25B1/00 Electrolytic production of inorganic compounds or non-metals

C25B1/00B . [N: by photo-electrolysis with or without external current source]

C25B1/00F . [N: of silicon]

C25B1/02 . of hydrogen or oxygen

C25B1/04 . . by electrolysis of water

C25B1/06 . . . in cells with flat or platelike electrodes

C25B1/08 of the filter-press type

C25B1/10 . . . in diaphragm cells

C25B1/12 . . . in pressure cells

C25B1/13 . of ozone [N0202]

C25B1/14 . of alkali metal compounds

C25B1/16 . . Hydroxides

C25B1/18 . of alkaline earth metal compounds or magnesium compounds

C25B1/20 . . Hydroxides

C25B1/21 . of manganese oxides [N0202]

C25B1/22 . of inorganic acids

- C25B1/24 . of halogens or compounds thereof
- C25B1/24B . . [N: Fluorine; Compounds thereof]
- C25B1/26 . . Chlorine; Compounds thereof
- C25B1/26B . . . [N: Chlorates]

- C25B1/28 . of per-compounds
- C25B1/28B . . [N: Persulfates] [N9503]
- C25B1/30 . . Peroxides
- C25B1/32 . . Perborates

- C25B1/34 . Simultaneous production of alkali metal hydroxides and chlorine, its oxyacids or salts
- C25B1/36 . . in mercury cathode cells
- C25B1/38 . . . with vertical mercury cathode
- C25B1/40 . . . with horizontal mercury cathode
- C25B1/42 . . . Decomposition of amalgams
- C25B1/44 with the aid of catalysts
- C25B1/46 . . in diaphragm cells

- C25B3/00 Electrolytic production of organic compounds**

- C25B3/02 . by oxidation
- C25B3/04 . by reduction
- C25B3/06 . by halogenation
- C25B3/08 . . by fluorination

- C25B3/10 . by coupling reactions, e.g. dimerisation
- C25B3/10B . . [N: hydrodimerisation]

- C25B3/12 . of organo-metallic compounds

- C25B5/00 Electrogenative processes, i.e. processes for producing compounds in which simultaneously electricity is generated**

- C25B7/00 Electrophoretic production of compounds or non-metals (separation or purification of peptides, e.g. of proteins, by electrophoresis [C07K1/26](#))**

- C25B9/00 Cells or assemblies of cells; Constructional parts of cells; Assemblies of constructional parts, e.g. electrode-diaphragm assemblies [\[C0202\]](#)**

- C25B9/00F . [N: Amalgam decomposition cells]
- C25B9/02 . Holders for electrodes
- C25B9/04 . Devices for current supply ([electrical connections in general H01R](#)); Electrode

- nections; Electric inter-cell connections
- C25B9/04B . . [N: Electric inter-cell connections including jumper switches]
- C25B9/06 . Cells comprising dimensionally-stable non-movable electrodes; Assemblies of constructional parts thereof [N0202]
- C25B9/06B . . [N: including bipolar electrodes] [N0202]
- C25B9/06B2 . . . [N: and diaphragms] [N0202]
- C25B9/08 . . with diaphragm [N0202]
- C25B9/10 . . . including an ion-exchange membrane in or on which electrode material is embedded [N0202]
- C25B9/12 . Cells or assemblies of cells comprising at least one movable electrode, e.g. rotary electrodes; Assemblies of constructional parts thereof [N0202]
- C25B9/12B . . [N: Rotary electrodes] [N0202]
- C25B9/14 . . Liquid electrodes, e.g. mercury electrodes [N0202]
- C25B9/14B . . . [N: of the horizontal type] [N0202]
- C25B9/14B2 [N: Grouping of such cells into batteries] [N0202]
- C25B9/14D . . . [N: of the vertical type] [N0202]
- C25B9/14D2 [N: Grouping of such cells into batteries] [N0202]
- C25B9/16 . Cells or assemblies of cells comprising at least one electrode made of particles; Assemblies of constructional parts thereof [N0202]
- C25B9/16B . . [N: comprising fluidised bed electrodes] [N0202]
- C25B9/16B2 . . . [N: Grouping of such cells into batteries] [N0202]
- C25B9/16D . . [N: comprising static bed electrodes][N0202]
- C25B9/16D2 . . . [N: Grouping of such cells into batteries] [N0202]
- C25B9/18 . Assemblies comprising a plurality of cells ([N: C25B9/00F takes precedence]; assemblies of cells with movable electrodes C25B9/12; assemblies of cells with electrodes made of particles C25B9/16) [N0202]
- C25B9/20 . . of the filter-press type [N0202]
- C25B9/20B . . . [N: with bipolar electrodes] [N0202]
- C25B9/20B2 [N: with diaphragms] [N0202]
- C25B11/00 Electrodes; Manufacture thereof not otherwise provided for**
- C25B11/02 . characterised by shape or form
- C25B11/03 . . perforated or foraminous
- C25B11/03B . . . Porous electrodes
- C25B11/04 . characterised by the material
- C25B11/04A . . [N: of electrodes having a substrate and a coating]
- C25B11/04B . . [N: characterised by the material of the substrate]
- C25B11/04B2 . . . [N: consisting of one single element or compound]
- C25B11/04B2B [N: Silicon]

- C25B11/04B4 . . . [N: consisting of plurality elements or compounds]
- C25B11/04B4B [N: Metal alloys]
- C25B11/04B4D [N: comprising metal powder and a non-metallic binder]
- C25B11/04D . . [N: characterised by the material of the coating]
- C25B11/04D2 . . . [N: Coatings consisting of a single component]
- C25B11/04D2B [N: Non-noble metal oxides]
- C25B11/04D2B2 [N: of the spinel type]
- C25B11/04D2B4 [N: of the perovskite type]
- C25B11/04D2B6 [N: of the rutile type]
- C25B11/04D2D [N: Noble metals]
- C25B11/04D4 . . . [N: Coatings consisting of two or more components]
- C25B11/04D4B [N: comprising at least a noble metal or noble metal oxide and a non-noble metal oxide]
- C25B11/04D4D [N: at least one of the components being an organic compound]
- C25B11/04D4F [N: comprising two or more noble metals or noble metal alloys]
- C25B11/12 . . Electrodes based on carbon (carbon masses in general [C04B35/52](#)) [N: ([C25B11/04A](#) takes precedence)]
- C25B11/14 . . . Impregnation of carbon electrodes [N: ([C25B11/04A](#) takes precedence) [C9601]]
- C25B11/16 . . Electrodes based on manganese dioxide or lead dioxide [N: ([C25B11/04A](#) takes precedence)]
- C25B11/18 . . Mercury or amalgam electrodes [N: ([C25B11/04A](#) takes precedence)]

C25B13/00 Diaphragms; Spacing elements

- C25B13/02 . characterised by form or shape
- C25B13/04 . characterised by the material
- C25B13/06 . . based on asbestos
- C25B13/08 . . based on organic materials

C25B15/00 Operating or servicing of cells

- C25B15/02 . Process control or regulation (controlling or regulating in general [G05](#))
- C25B15/04 . Regulation of the inter-electrode distance (electro-machining [B23P](#))
- C25B15/06 . Detection or inhibition of short circuits in the cell
- C25B15/08 . Supplying or removing reactants or electrolytes; Regeneration of electrolytes