

ECLA**EUROPEAN CLASSIFICATION****C25B****ELECTROLYTIC OR ELECTROPHORETIC PROCESSES FOR THE PRODUCTION OF COMPOUNDS OR NON-METALS; APPARATUS THEREFOR**[N: **WARNING**

1. 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

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.

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