

# CPC COOPERATIVE PATENT CLASSIFICATION

## 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](#).

### WARNING

The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

<a href="#">C25B 11/06</a>	covered by	<a href="#">B01J</a> , <a href="#">C25B 11/0442</a>
<a href="#">C25B 11/08</a>	covered by	<a href="#">B01J</a> , <a href="#">C25B 11/0442</a>
<a href="#">C25B 11/10</a>	covered by	<a href="#">C25B 11/0442</a>

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

- 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 perovskite 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}
- 11/12 . . Electrodes based on carbon (carbon masses in  
general [C04B 35/52](#) ) {([C25B 11/0405](#) takes  
precedence)}
- 11/14 . . . Impregnation of carbon electrodes  
{([C25B 11/0405](#) takes precedence)}
- 11/16 . . Electrodes based on manganese dioxide or lead  
dioxide {([C25B 11/0405](#) takes precedence)}
- 11/18 . . Mercury or amalgam electrodes {([C25B 11/0405](#)  
takes precedence)}
- 13/00 Diaphragms; Spacing elements**
- 13/02 . characterised by form or shape
- 13/04 . characterised by the material
- 13/06 . . based on asbestos
- 13/08 . . based on organic materials
- 15/00 Operating or servicing of cells**
- 15/02 . Process control or regulation (controlling or  
regulating in general [G05](#))
- 15/04 . Regulation of the inter-electrode distance (electro-  
machining [B23P](#))
- 15/06 . Detection or inhibition of short circuits in the cell
- 15/08 . Supplying or removing reactants or electrolytes;  
Regeneration of electrolytes