

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

METALLURGY

C25 ELECTROLYTIC OR ELECTROPHORETIC PROCESSES; APPARATUS THEREFOR

(NOTES omitted)

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](#))

NOTE

Compounds of particular interest are also classified in the relevant classes, e.g. in [C01](#), [C07](#), [C08](#).

1/00	<p>Electrolytic production of inorganic compounds or non-metals</p> <p><u>WARNING</u></p> <p>Group C25B 1/00 is impacted by reclassification into groups C25B 1/01, C25B 1/135, C25B 1/23, C25B 1/27, and C25B 1/50.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	1/042 by electrolysis of steam
			<p><u>WARNING</u></p> <p>Group C25B 1/042 is incomplete pending reclassification of documents from group C25B 1/04.</p> <p>Groups C25B 1/04 and C25B 1/042 should be considered in order to perform a complete search.</p>
1/01	<p>. Products</p> <p><u>WARNING</u></p> <p>Group C25B 1/01 is incomplete pending reclassification of documents from group C25B 1/00.</p> <p>Groups C25B 1/00 and C25B 1/01 should be considered in order to perform a complete search.</p>	1/044 producing mixed hydrogen and oxygen gas, e.g. Brown's gas [HHO]
			<p><u>WARNING</u></p> <p>Group C25B 1/044 is incomplete pending reclassification of documents from group C25B 1/04.</p> <p>Groups C25B 1/04 and C25B 1/044 should be considered in order to perform a complete search.</p>
1/02	<p>. . Hydrogen or oxygen</p>		
1/04	<p>. . . by electrolysis of water</p> <p><u>WARNING</u></p> <p>Group C25B 1/04 is incomplete pending reclassification of documents from group C25B 9/70.</p> <p>Group C25B 1/04 is also impacted by reclassification into groups C25B 1/042, C25B 1/044, C25B 9/05, C25B 9/19, C25B 9/23, C25B 9/73, C25B 9/75, C25B 9/77, C25B 11/00 and C25B 11/02.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>	1/13 1/135	<p>. . Ozone</p> <p>. . Carbon</p> <p><u>WARNING</u></p> <p>Group C25B 1/135 is incomplete pending reclassification of documents from group C25B 1/00.</p> <p>Groups C25B 1/00 and C25B 1/135 should be considered in order to perform a complete search.</p>
		1/14 1/16	<p>. . Alkali metal compounds</p> <p>. . . Hydroxides (by simultaneous production of alkali metal hydroxides and chlorine, oxyacids or salts of chlorine C25B 1/34)</p>
		1/18	<p>. . Alkaline earth metal compounds or magnesium compounds</p>
		1/20	<p>. . . Hydroxides</p>
		1/21	<p>. . Manganese oxides</p>
		1/22	<p>. . Inorganic acids</p>

- 1/23 . . Carbon monoxide or syngas
- WARNING**
- Group [C25B 1/23](#) is incomplete pending reclassification of documents from group [C25B 1/00](#).
- Groups [C25B 1/00](#) and [C25B 1/23](#) should be considered in order to perform a complete search.
- 1/24 . . Halogens or compounds thereof
- 1/245 . . . Fluorine; Compounds thereof
- 1/26 . . . Chlorine; Compounds thereof (by simultaneous production of alkali metal hydroxides and chlorine, oxyacids or salts of chlorine [C25B 1/34](#))
- 1/265 {Chlorates}
- 1/27 . . Ammonia

WARNING

Group [C25B 1/27](#) is incomplete pending reclassification of documents from group [C25B 1/00](#).

Groups [C25B 1/00](#) and [C25B 1/27](#) should be considered in order to perform a complete search.

- 1/28 . . Per-compounds
- 1/29 . . . Persulfates
- 1/30 . . . Peroxides
- 1/32 . . . Perborates
- 1/33 . . Silicon
- 1/34 . . Simultaneous production of alkali metal hydroxides and chlorine, oxyacids or salts of chlorine, e.g. by chlor-alkali electrolysis
- 1/36 . . . in mercury cathode cells
- 1/42 Decomposition of amalgams
- 1/44 with the aid of catalysts
- 1/46 . . . in diaphragm cells
- 1/50 . Processes

WARNING

Group [C25B 1/50](#) is incomplete pending reclassification of documents from group [C25B 1/00](#).

Groups [C25B 1/00](#) and [C25B 1/50](#) should be considered in order to perform a complete search.

- 1/55 . . Photoelectrolysis

3/00 Electrolytic production of organic compounds**WARNING**

Group [C25B 3/00](#) is impacted by reclassification into groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#), [C25B 3/11](#), [C25B 3/20](#), [C25B 3/21](#) and [C25B 3/26](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/01 . Products

WARNING

Groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#) and [C25B 3/11](#) are incomplete pending reclassification of documents from groups [C25B 3/00](#), [C25B 3/23](#), [C25B 3/25](#), [C25B 3/27](#), [C25B 3/28](#), [C25B 3/29](#) and [C25B 3/295](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/03 . . Acyclic or carbocyclic hydrocarbons
- 3/05 . . Heterocyclic compounds
- 3/07 . . Oxygen containing compounds
- 3/09 . . Nitrogen containing compounds
- 3/11 . . Halogen containing compounds
- 3/13 . . Organo-metallic compounds
- 3/20 . Processes

WARNING

Group [C25B 3/20](#) is incomplete pending reclassification of documents from group [C25B 3/00](#).

Groups [C25B 3/00](#) and [C25B 3/20](#) should be considered in order to perform a complete search.

- 3/21 . . Photoelectrolysis

WARNING

Group [C25B 3/21](#) is incomplete pending reclassification of documents from groups [C25B 3/00](#), [C25B 3/23](#), [C25B 3/25](#), [C25B 3/27](#), [C25B 3/28](#), [C25B 3/29](#), and [C25B 3/295](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/23 . . Oxidation (halogenation [C25B 3/27](#))

WARNING

Group [C25B 3/23](#) is impacted by reclassification into groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#), [C25B 3/11](#) and [C25B 3/21](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/25 . . Reduction

WARNING

Group [C25B 3/25](#) is impacted by reclassification into groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#), [C25B 3/11](#), [C25B 3/21](#) and [C25B 3/26](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 3/26 . . . of carbon dioxide
- WARNING**
- Group [C25B 3/26](#) is incomplete pending reclassification of documents from groups [C25B 3/00](#) and [C25B 3/25](#).
- Groups [C25B 3/00](#), [C25B 3/25](#), and [C25B 3/26](#) should be considered in order to perform a complete search.
- 3/27 . . Halogenation
- WARNING**
- Group [C25B 3/27](#) is impacted by reclassification into groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#), [C25B 3/11](#) and [C25B 3/21](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 3/28 . . . Fluorination
- WARNING**
- Group [C25B 3/28](#) is impacted by reclassification into groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#), [C25B 3/11](#) and [C25B 3/21](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 3/29 . . Coupling reactions
- WARNING**
- Group [C25B 3/29](#) is impacted by reclassification into groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#), [C25B 3/11](#) and [C25B 3/21](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 3/295 . . . {hydrodimerisation}
- WARNING**
- Group [C25B 3/295](#) is impacted by reclassification into groups [C25B 3/01](#), [C25B 3/03](#), [C25B 3/05](#), [C25B 3/07](#), [C25B 3/09](#), [C25B 3/11](#) and [C25B 3/21](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 5/00 **Electrogenerative processes, i.e. processes for producing compounds in which electricity is generated simultaneously**
- 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; Process-related cell features**
- WARNING**
- Group [C25B 9/00](#) is impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/07](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#), [C25B 9/50](#), [C25B 9/60](#) and [C25B 9/67](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/005 . {Amalgam decomposition cells}
- WARNING**
- Group [C25B 9/005](#) is incomplete pending reclassification of documents from group [C25B 9/70](#).
- Groups [C25B 9/70](#) and [C25B 9/005](#) should be considered in order to perform a complete search.
- 9/01 . Electrolytic cells characterised by shape or form
- WARNING**
- Groups [C25B 9/01](#) and [C25B 9/015](#) are incomplete pending reclassification of documents from groups [C25B 9/00](#), [C25B 9/17](#), [C25B 9/19](#), [C25B 9/23](#), [C25B 9/30](#), [C25B 9/70](#), [C25B 9/73](#), [C25B 9/75](#) and [C25B 9/77](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/015 . . Cylindrical cells
- 9/05 . Pressure cells
- WARNING**
- Group [C25B 9/05](#) is incomplete pending reclassification of documents from groups [C25B 1/04](#), [C25B 9/00](#), [C25B 9/17](#), [C25B 9/19](#), [C25B 9/23](#), [C25B 9/70](#), [C25B 9/73](#), [C25B 9/75](#) and [C25B 9/77](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/07 . Common duct cells
- WARNING**
- Group [C25B 9/07](#) is incomplete pending reclassification of documents from groups [C25B 9/00](#), [C25B 9/17](#), [C25B 9/30](#), [C25B 9/70](#), [C25B 9/73](#) and [C25B 9/75](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 9/09 . Fused bath cells
- WARNING**
- Group [C25B 9/09](#) is incomplete pending reclassification of documents from groups [C25B 9/00](#), [C25B 9/17](#), [C25B 9/19](#), [C25B 9/23](#), [C25B 9/70](#), [C25B 9/73](#), [C25B 9/75](#) and [C25B 9/77](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/13 . Single electrolytic cells with circulation of an electrolyte
- WARNING**
- Groups [C25B 9/13](#) and [C25B 9/15](#) are incomplete pending reclassification of documents from groups [C25B 9/00](#), [C25B 9/17](#), [C25B 9/19](#), [C25B 9/23](#), [C25B 9/30](#), [C25B 9/70](#), [C25B 9/73](#), [C25B 9/75](#) and [C25B 9/77](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/15 . . Flow-through cells
- 9/17 . Cells comprising dimensionally-stable non-movable electrodes; Assemblies of constructional parts thereof
- WARNING**
- Group [C25B 9/17](#) is impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/07](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#) and [C25B 9/50](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/19 . . with diaphragms
- WARNING**
- Group [C25B 9/19](#) is incomplete pending reclassification of documents from groups [C25B 1/04](#) and [C25B 9/73](#).
- Group [C25B 9/19](#) is also impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#), [C25B 9/21](#), [C25B 9/50](#), [C25B 9/75](#), [C25B 9/77](#) and [C25B 11/036](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/21 . . . two or more diaphragms
- WARNING**
- Group [C25B 9/21](#) is incomplete pending reclassification of documents from group [C25B 9/19](#).
- Groups [C25B 9/19](#) and [C25B 9/21](#) should be considered in order to perform a complete search.
- 9/23 . . . comprising ion-exchange membranes in or on which electrode material is embedded
- WARNING**
- Group [C25B 9/23](#) is incomplete pending reclassification of documents from groups [C25B 1/04](#) and [C25B 9/73](#).
- Group [C25B 9/23](#) is also impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#) and [C25B 9/50](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/30 . Cells comprising movable electrodes, e.g. rotary electrodes; Assemblies of constructional parts thereof
- WARNING**
- Group [C25B 9/30](#) is impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/07](#), [C25B 9/13](#), [C25B 9/15](#), [C25B 11/00](#), [C25B 11/02](#), [C25B 11/033](#) and [C25B 11/034](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/303 . . {comprising horizontal-type liquid electrode}
- 9/305 . . {comprising vertical-type liquid electrode}
- 9/40 . Cells or assemblies of cells comprising electrodes made of particles; Assemblies of constructional parts thereof
- WARNING**
- Group [C25B 9/40](#) is impacted by reclassification into groups [C25B 9/43](#), [C25B 9/47](#), [C25B 11/02](#) and [C25B 11/037](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 9/43 . . {comprising fluidised bed electrodes}
- WARNING**
- Group [C25B 9/43](#) is incomplete pending reclassification of documents from group [C25B 9/40](#).
- Groups [C25B 9/40](#) and [C25B 9/43](#) should be considered in order to perform a complete search.
- 9/47 . . {comprising static bed electrodes}
- WARNING**
- Group [C25B 9/47](#) is incomplete pending reclassification of documents from group [C25B 9/40](#).
- Groups [C25B 9/40](#) and [C25B 9/47](#) should be considered in order to perform a complete search.

- 9/50 . Cells or assemblies of cells comprising photoelectrodes; Assemblies of constructional parts thereof

WARNING

Group [C25B 9/50](#) is incomplete pending reclassification of documents from groups [C25B 9/00](#), [C25B 9/17](#), [C25B 9/19](#), [C25B 9/23](#), [C25B 9/70](#), [C25B 9/73](#), [C25B 9/75](#) and [C25B 9/77](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/60 . Constructional parts of cells

WARNING

Group [C25B 9/60](#) is incomplete pending reclassification of documents from group [C25B 9/00](#).

Groups [C25B 9/00](#) and [C25B 9/60](#) should be considered in order to perform a complete search.

- 9/63 . . Holders for electrodes; Positioning of the electrodes
- 9/65 . . Means for supplying current; Electrode connections; Electric inter-cell connections
- 9/66 . . . {Electric inter-cell connections including jumper switches}
- 9/67 . . Heating or cooling means

WARNING

Group [C25B 9/67](#) is incomplete pending reclassification of documents from group [C25B 9/00](#).

Groups [C25B 9/00](#) and [C25B 9/67](#) should be considered in order to perform a complete search.

- 9/70 . Assemblies comprising two or more cells

WARNING

Group [C25B 9/70](#) is impacted by reclassification into groups [C25B 1/04](#), [C25B 9/005](#), [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/07](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#), [C25B 9/50](#), [C25B 11/00](#) and [C25B 11/02](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/73 . . of the filter-press type

WARNING

Group [C25B 9/73](#) is incomplete pending reclassification of documents from group [C25B 1/04](#).

Group [C25B 9/73](#) is also impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/07](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#), [C25B 9/19](#), [C25B 9/23](#), [C25B 9/50](#), [C25B 9/75](#) and [C25B 9/77](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/75 . . . having bipolar electrodes

WARNING

Group [C25B 9/75](#) is incomplete pending reclassification of documents from groups [C25B 1/04](#), [C25B 9/19](#), [C25B 9/73](#), [C25B 9/77](#) and [C25B 11/036](#).

Group [C25B 9/75](#) is also impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/07](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#) and [C25B 9/50](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 9/77 . . . having diaphragms

WARNING

Group [C25B 9/77](#) is incomplete pending reclassification of documents from groups [C25B 1/04](#), [C25B 9/19](#), [C25B 9/73](#) and [C25B 11/036](#).

Group [C25B 9/77](#) is also impacted by reclassification into groups [C25B 9/01](#), [C25B 9/015](#), [C25B 9/05](#), [C25B 9/09](#), [C25B 9/13](#), [C25B 9/15](#), [C25B 9/50](#) and [C25B 9/75](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 11/00 Electrodes; Manufacture thereof not otherwise provided for**

WARNING

Group [C25B 11/00](#) is incomplete pending reclassification of documents from groups [C25B 1/04](#), [C25B 9/30](#), and [C25B 9/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 11/02 . characterised by shape or form
WARNING
 Group [C25B 11/02](#) is incomplete pending reclassification of documents from groups [C25B 1/04](#), [C25B 9/30](#), [C25B 9/40](#), and [C25B 9/70](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 11/03 . . perforated or foraminous
 11/031 . . . Porous electrodes
WARNING
 Group [C25B 11/031](#) is impacted by reclassification into group [C25B 11/032](#).
 Groups [C25B 11/031](#) and [C25B 11/032](#) should be considered in order to perform a complete search.
- 11/032 Gas diffusion electrodes
WARNING
 Group [C25B 11/032](#) is incomplete pending reclassification of documents from group [C25B 11/031](#).
 Groups [C25B 11/031](#) and [C25B 11/032](#) should be considered in order to perform a complete search.
- 11/033 . . Liquid electrodes
WARNING
 Group [C25B 11/033](#) is incomplete pending reclassification of documents from group [C25B 9/30](#).
 Groups [C25B 9/30](#) and [C25B 11/033](#) should be considered in order to perform a complete search.
- 11/034 . . Rotary electrodes
WARNING
 Group [C25B 11/034](#) is incomplete pending reclassification of documents from group [C25B 9/30](#).
 Groups [C25B 9/30](#) and [C25B 11/034](#) should be considered in order to perform a complete search.
- 11/036 . . Bipolar electrodes
WARNING
 Group [C25B 11/036](#) is incomplete pending reclassification of documents from group [C25B 9/19](#).
 Group [C25B 11/036](#) is also impacted by reclassification into groups [C25B 9/75](#) and [C25B 9/77](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 11/037 . . Electrodes made of particles
WARNING
 Group [C25B 11/037](#) is incomplete pending reclassification of documents from group [C25B 9/40](#).
 Groups [C25B 9/40](#) and [C25B 11/037](#) should be considered in order to perform a complete search.
- 11/04 . characterised by the material
WARNING
 Group [C25B 11/04](#) is impacted by reclassification into groups [C25B 11/042](#), [C25B 11/046](#), [C25B 11/047](#), [C25B 11/048](#), [C25B 11/049](#) and [C25B 11/051](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 11/042 . . Electrodes formed of a single material
WARNING
 Group [C25B 11/042](#) is incomplete pending reclassification of documents from group [C25B 11/04](#).
 Groups [C25B 11/042](#) and [C25B 11/04](#) should be considered in order to perform a complete search.
- 11/043 . . . Carbon, e.g. diamond or graphene
WARNING
 Group [C25B 11/043](#) is impacted by reclassification into group [C25B 11/044](#).
 Groups [C25B 11/043](#) and [C25B 11/044](#) should be considered in order to perform a complete search.
- 11/044 Impregnation of carbon
WARNING
 Group [C25B 11/044](#) is incomplete pending reclassification of documents from group [C25B 11/043](#).
 Groups [C25B 11/043](#) and [C25B 11/044](#) should be considered in order to perform a complete search.
- 11/045 . . . Mercury or amalgam
 11/046 . . . Alloys
WARNING
 Group [C25B 11/046](#) is incomplete pending reclassification of documents from group [C25B 11/04](#).
 Groups [C25B 11/046](#) and [C25B 11/04](#) should be considered in order to perform a complete search.

- 11/047 . . . Ceramics
WARNING
 Group [C25B 11/047](#) is incomplete pending reclassification of documents from group [C25B 11/04](#).
 Groups [C25B 11/047](#) and [C25B 11/04](#) should be considered in order to perform a complete search.
- 11/048 . . . Organic compounds
WARNING
 Group [C25B 11/048](#) is incomplete pending reclassification of documents from group [C25B 11/04](#).
 Groups [C25B 11/048](#) and [C25B 11/04](#) should be considered in order to perform a complete search.
- 11/049 . . . Photocatalysts
WARNING
 Group [C25B 11/049](#) is incomplete pending reclassification of documents from group [C25B 11/04](#).
 Groups [C25B 11/049](#) and [C25B 11/04](#) should be considered in order to perform a complete search.
- 11/051 . . Electrodes formed of electrocatalysts on a substrate or carrier
WARNING
 Group [C25B 11/051](#) is incomplete pending reclassification of documents from group [C25B 11/04](#).
 Group [C25B 11/051](#) is also impacted by reclassification into groups [C25B 11/052](#), [C25B 11/053](#), [C25B 11/054](#), [C25B 11/055](#), [C25B 11/056](#), [C25B 11/057](#), [C25B 11/065](#), [C25B 11/067](#), [C25B 11/069](#), [C25B 11/073](#), [C25B 11/075](#), [C25B 11/077](#), [C25B 11/079](#), [C25B 11/083](#), [C25B 11/085](#), [C25B 11/087](#), [C25B 11/089](#) and [C25B 11/097](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 11/052 . . . Electrodes comprising one or more electrocatalytic coatings on a substrate
WARNING
 Groups [C25B 11/052](#) and [C25B 11/053](#) are incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#), [C25B 11/052](#), and [C25B 11/053](#) should be considered in order to perform a complete search.
- 11/053 characterised by multilayer electrocatalytic coatings
- 11/054 . . . Electrodes comprising electrocatalysts supported on a carrier
WARNING
 Group [C25B 11/054](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/054](#) should be considered in order to perform a complete search.
- 11/055 . . . characterised by the substrate or carrier material
WARNING
 Group [C25B 11/055](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Group [C25B 11/055](#) is also impacted by reclassification into group [C25B 11/056](#).
 Groups [C25B 11/051](#), [C25B 11/055](#) and [C25B 11/056](#) should be considered in order to perform a complete search.
- 11/056 consisting of textile or non-woven fabric
WARNING
 Group [C25B 11/056](#) is incomplete pending reclassification of documents from groups [C25B 11/051](#) and [C25B 11/055](#).
 Groups [C25B 11/051](#), [C25B 11/055](#) and [C25B 11/056](#) should be considered in order to perform a complete search.
- 11/057 consisting of a single element or compound
WARNING
 Group [C25B 11/057](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Group [C25B 11/057](#) is also impacted by reclassification into groups [C25B 11/063](#), [C25B 11/065](#) and [C25B 11/067](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- 11/059 Silicon
- 11/061 Metal or alloy
WARNING
 Group [C25B 11/061](#) is impacted by reclassification into group [C25B 11/063](#).
 Groups [C25B 11/061](#) and [C25B 11/063](#) should be considered in order to perform a complete search.

- 11/063 Valve metal, e.g. titanium
WARNING
 Group [C25B 11/063](#) is incomplete pending reclassification of documents from groups [C25B 11/057](#) and [C25B 11/061](#).
 Groups [C25B 11/057](#), [C25B 11/061](#) and [C25B 11/063](#) should be considered in order to perform a complete search.
- 11/065 Carbon
WARNING
 Group [C25B 11/065](#) is incomplete pending reclassification of documents from groups [C25B 11/051](#) and [C25B 11/057](#).
 Groups [C25B 11/051](#), [C25B 11/057](#) and [C25B 11/065](#) should be considered in order to perform a complete search.
- 11/067 Inorganic compound e.g. ITO, silica or titania
WARNING
 Group [C25B 11/067](#) is incomplete pending reclassification of documents from groups [C25B 11/051](#) and [C25B 11/057](#).
 Groups [C25B 11/051](#), [C25B 11/057](#) and [C25B 11/067](#) should be considered in order to perform a complete search.
- 11/069 consisting of at least one single element and at least one compound; consisting of two or more compounds
WARNING
 Group [C25B 11/069](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/069](#) should be considered in order to perform a complete search.
- 11/071 comprising metal or alloy powder and non-metallic binders
- 11/073 . . . characterised by the electrocatalyst material
WARNING
 Group [C25B 11/073](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/073](#) should be considered in order to perform a complete search.
- 11/075 consisting of a single catalytic element or catalytic compound
WARNING
 Group [C25B 11/075](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/075](#) should be considered in order to perform a complete search.
- 11/077 the compound being a non-noble metal oxide
WARNING
 Group [C25B 11/077](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/077](#) should be considered in order to perform a complete search.
- 11/0771 {of the spinel type}
- 11/0773 {of the perovskite type}
- 11/0775 {of the rutile type}
- 11/079 Manganese dioxide; Lead dioxide
WARNING
 Group [C25B 11/079](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/079](#) should be considered in order to perform a complete search.
- 11/081 the element being a noble metal
- 11/083 Diamond
WARNING
 Group [C25B 11/083](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/083](#) should be considered in order to perform a complete search.
- 11/085 Organic compound
WARNING
 Group [C25B 11/085](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/085](#) should be considered in order to perform a complete search.
- 11/087 Photocatalytic compound
WARNING
 Group [C25B 11/087](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
 Groups [C25B 11/051](#) and [C25B 11/087](#) should be considered in order to perform a complete search.

- 11/089 Alloys
- WARNING**
- Group [C25B 11/089](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
- Groups [C25B 11/051](#) and [C25B 11/089](#) should be considered in order to perform a complete search.
- 11/091 consisting of at least one catalytic element and at least one catalytic compound; consisting of two or more catalytic elements or catalytic compounds
- 11/093 at least one noble metal or noble metal oxide and at least one non-noble metal oxide
- 11/095 at least one of the compounds being organic
- 11/097 comprising two or more noble metals or noble metal alloys
- WARNING**
- Group [C25B 11/097](#) is incomplete pending reclassification of documents from group [C25B 11/051](#).
- Groups [C25B 11/051](#) and [C25B 11/097](#) should be considered in order to perform a complete search.
- 13/00 Diaphragms; Spacing elements**
- 13/02 . characterised by shape or form
- 13/04 . characterised by the material
- WARNING**
- Group [C25B 13/04](#) is impacted by reclassification into groups [C25B 13/05](#) and [C25B 13/07](#).
- Groups [C25B 13/04](#), [C25B 13/05](#), and [C25B 13/07](#) should be considered in order to perform a complete search.
- 13/05 . . based on inorganic materials
- WARNING**
- Group [C25B 13/05](#) is incomplete pending reclassification of documents from group [C25B 13/04](#).
- Groups [C25B 13/04](#) and [C25B 13/05](#) should be considered in order to perform a complete search.
- 13/06 . . . based on asbestos
- 13/07 . . . based on ceramics
- WARNING**
- Group [C25B 13/07](#) is incomplete pending reclassification of documents from group [C25B 13/04](#).
- Groups [C25B 13/04](#) and [C25B 13/07](#) should be considered in order to perform a complete search.
- 13/08 . . based on organic materials
- 15/00 Operating or servicing cells**
- 15/02 . Process control or regulation
- WARNING**
- Group [C25B 15/02](#) is impacted by reclassification into groups [C25B 15/021](#), [C25B 15/023](#), [C25B 15/025](#), [C25B 15/027](#), [C25B 15/029](#), [C25B 15/031](#), and [C25B 15/033](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 15/021 . . of heating or cooling
- WARNING**
- Group [C25B 15/021](#) is incomplete pending reclassification of documents from group [C25B 15/02](#).
- Groups [C25B 15/02](#) and [C25B 15/021](#) should be considered in order to perform a complete search.
- 15/023 . . Measuring, analysing or testing during electrolytic production
- WARNING**
- Groups [C25B 15/023](#) - [C25B 15/033](#) are incomplete pending reclassification of documents from group [C25B 15/02](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 15/025 . . . of electrolyte parameters
- 15/027 Temperature
- 15/029 Concentration
- 15/031 pH
- 15/033 Conductivity
- 15/04 . Regulation of the inter-electrode distance
- 15/06 . Detection or inhibition of short circuits in the cell
- 15/08 . Supplying or removing reactants or electrolytes; Regeneration of electrolytes
- WARNING**
- Group [C25B 15/08](#) is impacted by reclassification into groups [C25B 15/081](#), [C25B 15/083](#), [C25B 15/085](#), and [C25B 15/087](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 15/081 . . {Supplying products to non-electrochemical reactors that are combined with the electrochemical cell, e.g. Sabatier reactor}
- WARNING**
- Group [C25B 15/081](#) is incomplete pending reclassification of documents from group [C25B 15/08](#).
- Groups [C25B 15/08](#) and [C25B 15/081](#) should be considered in order to perform a complete search.

C25B

15/083 . . {Separating products}

WARNING

Group [C25B 15/083](#) is incomplete pending reclassification of documents from group [C25B 15/08](#).

Groups [C25B 15/08](#) and [C25B 15/083](#) should be considered in order to perform a complete search.

15/085 . . {Removing impurities}

WARNING

Group [C25B 15/085](#) is incomplete pending reclassification of documents from group [C25B 15/08](#).

Groups [C25B 15/08](#) and [C25B 15/085](#) should be considered in order to perform a complete search.

15/087 . . {Recycling of electrolyte to electrochemical cell}

WARNING

Group [C25B 15/087](#) is incomplete pending reclassification of documents from group [C25B 15/08](#).

Groups [C25B 15/08](#) and [C25B 15/087](#) should be considered in order to perform a complete search.