

CPC**COOPERATIVE PATENT CLASSIFICATION****C25C****PROCESSES FOR THE ELECTROLYTIC PRODUCTION, RECOVERY OR REFINING OF METALS; APPARATUS THEREFOR****C25C 1/00**

Electrolytic production, recovery or refining of metals by electrolysis of solutions
[\(C25C 5/00 takes precedence\)](#)

- C25C 1/02 . of light metals
- C25C 1/04 . . in mercury cathode cells
- C25C 1/06 . or iron group metals, refractory metals or manganese
- C25C 1/08 . . of nickel or cobalt
- C25C 1/10 . . of chromium or manganese
- C25C 1/12 . of copper
- C25C 1/14 . of tin
- C25C 1/16 . of zinc, cadmium or mercury
- C25C 1/18 . of lead
- C25C 1/20 . of noble metals
- C25C 1/22 . of metals not provided for in groups [C25C 1/02](#) to [C25C 1/20](#)
- C25C 1/24 . Alloys obtained by cathodic reduction of all their ions

C25C 3/00

Electrolytic production, recovery or refining of metals by electrolysis of melts
[\(C25C 5/00 takes precedence\)](#)

- C25C 3/02 . of alkali or alkaline earth metals
- C25C 3/04 . of magnesium
- C25C 3/06 . of aluminium
- C25C 3/08 . . Cell construction, e.g. bottoms, walls, cathodes
- C25C 3/085 . . . {characterised by its non electrically conducting heat insulating parts}
- C25C 3/10 . . External supporting frames or structures
- C25C 3/12 . . . Anodes
- C25C 3/125 {based on carbon}
- C25C 3/14 . . Devices for feeding or crust breaking
- C25C 3/16 . . Electric current supply devices, e.g. bus bars
- C25C 3/18 . . Electrolytes
- C25C 3/20 . . Automatic control or regulation of cells ([controlling or regulating in general G05](#))
- C25C 3/22 . . Collecting emitted gases
- C25C 3/24 . . Refining
- C25C 3/26 . of titanium, zirconium, hafnium, tantalum or vanadium
- C25C 3/28 . . of titanium
- C25C 3/30 . of manganese
- C25C 3/32 . of chromium
- C25C 3/34 . of metals not provided for in groups [C25C 3/02](#) to [C25C 3/32](#)

- C25C 3/36 . Alloys obtained by cathodic reduction of all their ions
- C25C 5/00** **Electrolytic production, recovery or refining of metal powders or porous metal masses**
 - C25C 5/02 . from solutions
 - C25C 5/04 . from melts
- C25C 7/00** **Constructional parts, or assemblies thereof, of cells; Servicing or operating of cells (for the production of aluminium [C25C 3/06](#) to [C25C 3/22](#))**
 - C25C 7/002 . {of cells comprising at least an electrode made of particles ([C25C 7/005](#), [C25C 7/02](#) to [C25C 7/06](#) take precedence)}
 - C25C 7/005 . {of cells for the electrolysis of melts ([C25C 7/02](#) to [C25C 7/06](#) take precedence)}
 - C25C 7/007 . {of cells comprising at least a movable electrode ([C25C 7/002](#), [C25C 7/02](#) to [C25C 7/06](#) take precedence)}
 - C25C 7/02 . Electrodes (consumable anodes for the refining the metals [C25C 1/00](#) to [C25C 5/00](#)); Connections thereof
 - C25C 7/025 . . {used in cells for the electrolysis of melts}
 - C25C 7/04 . Diaphragms; Spacing elements
 - C25C 7/06 . Operating or servicing
 - C25C 7/08 . . Separating of deposited metals from the cathode