

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

- . of 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