

**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	<ul style="list-style-type: none"> <li>• of chromium</li> </ul>
C25C 3/34	<ul style="list-style-type: none"> <li>• of metals not provided for in groups <a href="#">C25C 3/02</a> to <a href="#">C25C 3/32</a></li> </ul>
C25C 3/36	<ul style="list-style-type: none"> <li>• Alloys obtained by cathodic reduction of all their ions</li> </ul>
<b>C25C 5/00</b>	<b>Electrolytic production, recovery or refining of metal powders or porous metal masses</b>
C25C 5/02	<ul style="list-style-type: none"> <li>• from solutions</li> </ul>
C25C 5/04	<ul style="list-style-type: none"> <li>• from melts</li> </ul>
<b>C25C 7/00</b>	<b>Constructional parts, or assemblies thereof, of cells; Servicing or operating of cells (for the production of aluminium <a href="#">C25C 3/06</a> to <a href="#">C25C 3/22</a>)</b>
C25C 7/002	<ul style="list-style-type: none"> <li>• {of cells comprising at least an electrode made of particles (<a href="#">C25C 7/005</a>, <a href="#">C25C 7/02</a> to <a href="#">C25C 7/06</a> take precedence)}</li> </ul>
C25C 7/005	<ul style="list-style-type: none"> <li>• {of cells for the electrolysis of melts (<a href="#">C25C 7/02</a> to <a href="#">C25C 7/06</a> take precedence)}</li> </ul>
C25C 7/007	<ul style="list-style-type: none"> <li>• {of cells comprising at least a movable electrode (<a href="#">C25C 7/002</a>, <a href="#">C25C 7/02</a> to <a href="#">C25C 7/06</a> take precedence)}</li> </ul>
C25C 7/02	<ul style="list-style-type: none"> <li>• Electrodes (consumable anodes for the refining the metals <a href="#">C25C 1/00</a> to <a href="#">C25C 5/00</a>); Connections thereof</li> </ul>
C25C 7/025	<ul style="list-style-type: none"> <li>• . {used in cells for the electrolysis of melts}</li> </ul>
C25C 7/04	<ul style="list-style-type: none"> <li>• Diaphragms; Spacing elements</li> </ul>
C25C 7/06	<ul style="list-style-type: none"> <li>• Operating or servicing</li> </ul>
C25C 7/08	<ul style="list-style-type: none"> <li>• . Separating of deposited metals from the cathode</li> </ul>