

# CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

### METALLURGY

**C22 METALLURGY** (of iron [C21](#)); **FERROUS OR NON-FERROUS ALLOYS; TREATMENT OF ALLOYS OR NON-FERROUS METALS** (production of metals by electrolysis or electrophoresis [C25](#))

**C22F CHANGING THE PHYSICAL STRUCTURE OF NON-FERROUS METALS AND NON-FERROUS ALLOYS** (surface treatment of metallic material involving at least one process provided for in class [C23](#) and at least one process covered by this subclass, [C23F 17/00](#))

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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| <p><b>1/00</b>    <b>Changing the physical structure of non-ferrous metals or alloys by heat treatment or by hot or cold working</b> (apparatus for mechanical working of metal <a href="#">B21</a>, <a href="#">B23</a>, <a href="#">B24</a>)</p> <p>1/002    . {by rapid cooling or quenching; cooling agents used therefor}</p> <p>1/004    . {Heat treatment in fluid bed}</p> <p>1/006    . {Resulting in heat recoverable alloys with a memory effect}</p> <p>1/008    . {Using a protective surface layer}</p> <p>1/02    . in inert or controlled atmosphere or vacuum (adjusting the composition of the atmosphere <a href="#">C21D 1/76</a>)</p> <p>1/04    . of aluminium or alloys based thereon</p> <p>1/043    . . of alloys with silicon as the next major constituent</p> <p>1/047    . . of alloys with magnesium as the next major constituent</p> <p>1/05    . . of alloys of the Al-Si-Mg type, i.e. containing silicon and magnesium in approximately equal proportions</p> <p>1/053    . . of alloys with zinc as the next major constituent</p> <p>1/057    . . of alloys with copper as the next major constituent</p> <p>1/06    . of magnesium or alloys based thereon</p> <p>1/08    . of copper or alloys based thereon</p> <p>1/10    . of nickel or cobalt or alloys based thereon</p> <p>1/11    . of chromium or alloys based thereon</p> <p>1/12    . of lead or alloys based thereon</p> <p>1/14    . of noble metals or alloys based thereon</p> <p>1/16    . of other metals or alloys based thereon</p> <p>1/165    . . {of zinc or cadmium or alloys based thereon}</p> <p>1/18    . . High-melting or refractory metals or alloys based thereon</p> <p>1/183    . . . {of titanium or alloys based thereon}</p> <p>1/186    . . . {of zirconium or alloys based thereon}</p> <p><b>3/00</b>    <b>Changing the physical structure of non-ferrous metals or alloys by special physical methods, e.g. treatment with neutrons</b></p> | <p>3/02    . by solidifying a melt controlled by supersonic waves or electric or magnetic fields</p> |
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