

## SECTION C — CHEMISTRY; METALLURGY

### C22 METALLURGY; FERROUS OR NON-FERROUS ALLOYS; TREATMENT OF ALLOYS OR NON-FERROUS METALS

C22F CHANGING THE PHYSICAL STRUCTURE OF NON-FERROUS METALS OR NON-FERROUS ALLOYS (general methods or devices for heat treatment of ferrous or non-ferrous metals or alloys C21D; 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)

**1/00 Changing the physical structure of non-ferrous metals or alloys by heat treatment or by hot or cold working**

1/02 • in inert or controlled atmosphere or vacuum

1/04 • of aluminium or alloys based thereon

1/043 • • of alloys with silicon as the next major constituent [4]

1/047 • • of alloys with magnesium as the next major constituent [4]

1/05 • • of alloys of the Al-Si-Mg type, i.e. containing silicon and magnesium in approximately equal proportions [4]

1/053 • • of alloys with zinc as the next major constituent [4]

1/057 • • of alloys with copper as the next major constituent [4]

1/06 • of magnesium or alloys based thereon

1/08 • of copper or alloys based thereon

1/10 • of nickel or cobalt or alloys based thereon

1/11 • of chromium or alloys based thereon

1/12 • of lead or alloys based thereon

1/14 • of noble metals or alloys based thereon

1/16 • of other metals or alloys based thereon

1/18 • • High-melting or refractory metals or alloys based thereon

**3/00 Changing the physical structure of non-ferrous metals or alloys by special physical methods, e.g. treatment with neutrons**

3/02 • by solidifying a melt controlled by supersonic waves or electric or magnetic fields