

Title (en)
Austenitic alloys and their applications

Title (de)
Austenitische Legierungen und deren Verwendung

Title (fr)
Alliages austénitiques et leurs applications

Publication
EP 0657556 B1 19990210 (DE)

Application
EP 94118682 A 19941128

Priority
DE 4342188 A 19931210

Abstract (en)
[origin: EP0657556A1] The invention relates to high chromium content, corrosion resistant, austenitic alloys having the following composition: 32-37% by weight of chromium 28-36% by weight of nickel max. 2% by weight of manganese max. 0.5% by weight of silicon max. 0.1% by weight of aluminium max. 0.03% by weight of carbon max. 0.025% by weight of phosphorus max. 0.01% by weight of sulphur max. 2% by weight of molybdenum max. 1% by weight of copper 0.3-0.7% by weight of nitrogen and usual minor constituents and impurities resulting from the production method and the remainder as iron. These alloys are suitable as materials for articles which are resistant to chemical attack.

IPC 1-7
C22C 30/00; **C22C 38/00**

IPC 8 full level
C22C 30/02 (2006.01); **C22C 30/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/44** (2006.01)

CPC (source: EP KR US)
C22C 30/00 (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/40** (2013.01 - KR); **C22C 38/42** (2013.01 - KR);
C22C 38/44 (2013.01 - KR)

Cited by
EP2228578A1; CN110295276A; CN109338345A; EP0913491A1; DE19748205A1; CN1093885C; US8430075B2; WO0202837A1;
WO2008002150A1; US6764647B2; US6406572B1; US6616779B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0657556 A1 19950614; **EP 0657556 B1 19990210**; AT E176690 T1 19990215; AU 694456 B2 19980723; AU 8030794 A 19950615;
CA 2137522 A1 19950611; CA 2137522 C 20040427; DE 4342188 A1 19950614; DE 4342188 C2 19980604; DE 59407804 D1 19990325;
DK 0657556 T3 19990920; ES 2128495 T3 19990516; FI 107168 B 20010615; FI 945771 A0 19941208; FI 945771 A 19950611;
JP 3355510 B2 20021209; JP H07197181 A 19950801; KR 950018592 A 19950722; PL 179404 B1 20000831; PL 306180 A1 19950612;
TW 363084 B 19990701; US 5695716 A 19971209; ZA 949832 B 19950822

DOCDB simple family (application)
EP 94118682 A 19941128; AT 94118682 T 19941128; AU 8030794 A 19941208; CA 2137522 A 19941207; DE 4342188 A 19931210;
DE 59407804 T 19941128; DK 94118682 T 19941128; ES 94118682 T 19941128; FI 945771 A 19941208; JP 33121294 A 19941208;
KR 19940033602 A 19941210; PL 30618094 A 19941208; TW 83111453 A 19941209; US 65445196 A 19960521; ZA 949832 A 19941209