

Title (en)

Wear resistant alloy

Title (de)

Verschleißfeste Legierung

Title (fr)

Alliage résistant à l'usure

Publication

**EP 2224031 A1 20100901 (EN)**

Application

**EP 09152975 A 20090217**

Priority

EP 09152975 A 20090217

Abstract (en)

In order to provide a material of low cost that is suitable to produce parts or coatings having a high wear and also high chemical resistance, an alloy is proposed comprising 13 to 16 percent by weight nickel (Ni), 13.5 to 16.5 percent by weight of chromium (Cr), 0.5 to 3 percent by weight of molybdenum (Mo), 3.5 to 4.5 percent by weight of silicon (Si), 3.5 to 4 percent by weight of boron (B) and 1.5 to 2.1 percent by weight of carbon (C), balance iron (Fe).

IPC 8 full level

**C22C 38/54** (2006.01); **B22F 1/00** (2022.01); **C22C 38/44** (2006.01); **C22C 38/56** (2006.01); **C23C 4/08** (2006.01)

CPC (source: EP US)

**B22F 1/00** (2013.01 - EP US); **C22C 33/0285** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C22C 38/56** (2013.01 - EP US); **C23C 30/00** (2013.01 - EP US)

Citation (applicant)

- US 6027583 A 20000222 - KRETSCHMER INGO [CH], et al
- US 6187115 B1 20010213 - KRETSCHMER INGO [CH], et al
- US 6322857 B1 20011127 - KRETSCHMER INGO [CH], et al
- EP 1788104 A1 20070523 - MEC HOLDING GMBH [DE]
- DE 19733306 C1 19990506 - ROETHIG JUERGEN DR ING [DE], et al
- DE 19901170 A1 20000427 - REILOY METALL GMBH [DE]
- CA 2416950 A1 20030723 - BOHLER EDELSTAHL GMBH & CO KG [AT]

Citation (search report)

- [A] WO 2008018128 A1 20080214 - SHOJI CO LTD ING [JP], et al
- [A] EP 1193042 A2 20020403 - XALOY AG [CH]
- [A] EP 0223202 A2 19870527 - PERKIN ELMER CORP [US]
- [A] JP 2001279369 A 20011010 - HITACHI METALS LTD
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CN104593712A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2224031 A1 20100901**; **EP 2224031 B1 20130403**; BR PI1012342 A2 20160322; BR PI1012342 B1 20190827; CA 2749983 A1 20100826; CA 2749983 C 20180710; ES 2418135 T3 20130812; JP 2012518082 A 20120809; PL 2224031 T3 20130830; RU 2011131534 A 20130327; RU 2530196 C2 20141010; US 2011300016 A1 20111208; WO 2010094708 A2 20100826; WO 2010094708 A3 20111222

DOCDB simple family (application)

**EP 09152975 A 20090217**; BR PI1012342 A 20100217; CA 2749983 A 20100217; EP 2010051990 W 20100217; ES 09152975 T 20090217; JP 2011549609 A 20100217; PL 09152975 T 20090217; RU 2011131534 A 20100217; US 201013138446 A 20100217