

Title (en)

Wear resistant alloy

Title (de)

Verschleißfeste Legierung

Title (fr)

Alliage résistant à l'usure

Publication

**EP 2224031 B1 20130403 (EN)**

Application

**EP 09152975 A 20090217**

Priority

EP 09152975 A 20090217

Abstract (en)

[origin: EP2224031A1] 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

**B22F 1/00** (2022.01); **C22C 38/44** (2006.01); **C22C 38/54** (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)

Cited by

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

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