

Title (en)

HIGH TEMPERATURE WEAR-RESISTANT ALUMINUM-BRONZE-BASED MATERIAL

Title (de)

HOCHTEMPERATURVERSCHLEISSFESTES MATERIAL AUF ALUMINIUM-BRONZE-BASIS

Title (fr)

MATÉRIAU À BASE D'ALUMINIUM-BRONZE RÉSISTANT À L'USURE À HAUTE TEMPÉRATURE

Publication

EP 3263721 A4 20180808 (EN)

Application

EP 16755004 A 20160224

Priority

- JP 2015034357 A 20150224
- JP 2016000987 W 20160224

Abstract (en)

[origin: EP3263721A1] Provided is a material endowed with high wear resistance in high-temperature environments. This high temperature wear-resistant aluminum-bronze-based material has an Al content of 9.0 mass% to 11.0 mass%, inclusive, an Ni content of 1.0 mass% to 3.0 mass%, inclusive, an Mn content of 8.5 mass% to 15.0 mass%, inclusive, an Si content of 2.0 mass% to 4.0 mass%, inclusive, an Fe content of 0.5 mass% to 5.0 mass%, inclusive, and a Co content of 0.01 mass% to 1.5 mass%, inclusive, with the remainder being substantially Cu.

IPC 8 full level

C22C 9/01 (2006.01); **B22D 27/20** (2006.01); **C22C 9/05** (2006.01)

CPC (source: EP US)

B22D 27/20 (2013.01 - EP US); **C22C 9/01** (2013.01 - EP US); **C22C 9/05** (2013.01 - EP US)

Citation (search report)

- [A] JP S62235446 A 19871015 - KOBE STEEL LTD
- [A] FR 2922898 A1 20090501 - AUXITROL SA SA [FR]
- [A] US 2013058605 A1 20130307 - HIRAYAMA MAKI [JP], et al
- [A] US 2012020600 A1 20120126 - NISHIMURA SHINYA [JP], et al
- See references of WO 2016136254A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3263721 A1 20180103; **EP 3263721 A4 20180808**; **EP 3263721 B1 20190529**; JP 6764397 B2 20200930; JP WO2016136254 A1 20171207; US 2018037978 A1 20180208; WO 2016136254 A1 20160901

DOCDB simple family (application)

EP 16755004 A 20160224; JP 2016000987 W 20160224; JP 2017501943 A 20160224; US 201615551786 A 20160224