

Title (en)
AUSTENITIC HEAT-RESISTANT ALLOY

Title (de)
WÄRMEBESTÄNDIGE AUSTENITISCHE LEGIERUNG

Title (fr)
ALLIAGE AUSTÉNITIQUE RÉSISTANT À LA CHALEUR

Publication
EP 3115476 A1 20170111 (EN)

Application
EP 15758391 A 20150304

Priority
• JP 2014042889 A 20140305
• JP 2015056433 W 20150304

Abstract (en)
Specific amount of each of C, Si, Mn, P, S, Ni, Cr, Cu, Mo, Nb, Ti, B and N is contained, a specific amount of at least one of Mg and Ca is contained, a total of Nb and Ti is 0.3% or more, and the remainder is Fe and unavoidable impurities. A cumulative number density of a precipitate whose particle diameter falls within a range of more than 0 nm up to 100 nm is 0.1 to 2.0 Number/ μm^2 , a precipitate particle diameter corresponding to a half of the cumulative number density in a distribution of the cumulative number density and the precipitate particle diameter is 70 nm or less, an average hardness is 160 Hv or less, and a grain size number is 7.5 or more.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)
C21D 6/004 (2013.01 - EP KR US); **C21D 8/02** (2013.01 - KR); **C21D 9/0068** (2013.01 - KR); **C22C 38/00** (2013.01 - US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/40** (2013.01 - KR); **C22C 38/42** (2013.01 - EP KR US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP KR US); **C22C 38/54** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - EP KR US); **C21D 9/0068** (2013.01 - EP US); **C21D 2211/001** (2013.01 - EP US); **C21D 2211/004** (2013.01 - EP KR US)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3115476 A1 20170111; **EP 3115476 A4 20171101**; CN 106062230 A 20161026; CN 106062230 B 20170714; JP 2015168834 A 20150928; JP 6289941 B2 20180307; KR 101770536 B1 20170822; KR 20160116344 A 20161007; US 2017067139 A1 20170309; WO 2015133551 A1 20150911

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EP 15758391 A 20150304; CN 201580011341 A 20150304; JP 2014042889 A 20140305; JP 2015056433 W 20150304; KR 20167023997 A 20150304; US 201515123125 A 20150304