

Title (en)  
AUSTENITIC HEAT-RESISTANT ALLOY

Title (de)  
WÄRMEBESTÄNDIGE AUSTENITISCHE LEGIERUNG

Title (fr)  
ALLIAGE AUSTÉNITIQUE RÉSISTANT À LA CHALEUR

Publication  
**EP 3115476 A4 20171101 (EN)**

Application  
**EP 15758391 A 20150304**

Priority  
• JP 2014042889 A 20140305  
• JP 2015056433 W 20150304

Abstract (en)  
[origin: EP3115476A1] 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/ $\mu\text{m}^2$ , 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); **C21D 9/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (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)

Citation (search report)  
• [A] JP 2013209730 A 20131010 - NIPPON STEEL & SUMIKIN SST  
• [A] EP 1867743 A1 20071219 - SUMITOMO METAL IND [JP]  
• [A] JP 2006249464 A 20060921 - NISSHIN STEEL CO LTD  
• See references of WO 2015133551A1

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)  
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