

Title (en)  
FREE-CUTTING STAINLESS-STEEL CAST PRODUCT AND PROCESS FOR PRODUCING SAME

Title (de)  
AUTOMATENEDELSTAHLGUSSPRODUKT UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)  
PRODUIT COULÉ EN ACIER INOXYDABLE DE DÉCOLLETAGE ET PROCÉDÉ DE FABRICATION

Publication  
**EP 2537952 B1 20161228 (EN)**

Application  
**EP 11812136 A 20110422**

Priority  
• JP 2010167872 A 20100727  
• JP 2011059910 W 20110422

Abstract (en)  
[origin: EP2537952A1] [Object] An object of the present invention is to provide a free-cutting stainless steel cast product capable of ensuring all of excellent machinability, environmental friendliness, and corrosion resistance, and a production method thereof. [Means for solving] A stainless steel cast product, which contains a free-cutting additive, which is h-BN particles, where the h-BN particles are uniformly dispersed and precipitated in steel. A production method thereof, which contains: heating a stainless steel cast product in which h-BN particles are precipitated, followed by quenching to eliminate the h-BN particles by a solution treatment; and tempering to again disperse and precipitate h-BN particles.

IPC 8 full level  
**C22C 38/00** (2006.01); **C21D 6/00** (2006.01); **C22C 33/04** (2006.01)

CPC (source: EP)  
**C21D 1/18** (2013.01); **C21D 1/60** (2013.01); **C21D 5/00** (2013.01); **C21D 6/002** (2013.01); **C21D 6/004** (2013.01); **C22C 1/02** (2013.01); **C22C 33/04** (2013.01); **C22C 38/00** (2013.01); **C22C 38/001** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/40** (2013.01); **C22C 38/54** (2013.01); **C21D 2211/004** (2013.01)

Cited by  
CN105331779A

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 2537952 A1 20121226**; **EP 2537952 A4 20140507**; **EP 2537952 B1 20161228**; CN 102959111 A 20130306; CN 102959111 B 20170704; JP 5713299 B2 20150507; JP WO2012014541 A1 20130912; WO 2012014541 A1 20120202

DOCDB simple family (application)  
**EP 11812136 A 20110422**; CN 201180031162 A 20110422; JP 2011059910 W 20110422; JP 2012526353 A 20110422