

Title (en)

AUSTENITIC CAST IRON, PROCESS FOR MANUFACTURING THE SAME, AUSTENITIC CAST IRON CASTINGS, AND EXHAUST SYSTEM PARTS

Title (de)

AUSTENITISCHES GUSSEISEN, HERSTELLUNGSVERFAHREN DAFÜR, GEHÄUSE AUS AUSTENITISCHEM GUSSEISEN UND ABGASSYSTEMTEILE

Title (fr)

FONTE AUSTÉNITIQUE, SON PROCÉDÉ DE FABRICATION, PIÈCES MOULÉES EN FONTE AUSTÉNITIQUE, ET PIÈCES DE SYSTÈME D'ÉCHAPPEMENT

Publication

**EP 2184372 A4 20111221 (EN)**

Application

**EP 08828246 A 20080829**

Priority

- JP 2008066028 W 20080829
- JP 2007226851 A 20070831
- JP 2008008180 A 20080117
- JP 2008116431 A 20080425

Abstract (en)

[origin: EP2184372A1] An austenitic cast iron according to the present invention has Ni: from 7 to 15% by mass, and is characterized in that it comprises a base structure in which an austenite phase makes a major phase even in ordinary-temperature region by adjusting the respective compositions of Cr, Ni and Cu, excepting C and Si, so as to fall within predetermined ranges. In accordance with the present invention, it is possible to obtain an austenitic cast iron, which is excellent in terms of oxidation resistance and the like, inexpensively, while reducing the content of expensive Ni.

IPC 8 full level

**C22C 37/04** (2006.01); **B22D 27/20** (2006.01); **C21C 1/10** (2006.01)

CPC (source: EP US)

**C21C 1/105** (2013.01 - EP US); **C22C 37/04** (2013.01 - EP US); **C22C 37/08** (2013.01 - EP US)

Citation (search report)

- [XAI] GB 801698 A 19580917 - CIE DE PONT A MOUSSON
- [X] DE 2646276 A1 19780420 - GOETZEWERKE
- [A] CN 85100066 A 19860709
- See references of WO 2009028736A1

Cited by

RU2625191C1; RU2657957C1; EP2573199A4; RU2624543C1; US9567657B2

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 2184372 A1 20100512; EP 2184372 A4 20111221; EP 2184372 B1 20131016; EP 2184372 B9 20150311**; ES 2441598 T3 20140205; JP 5384352 B2 20140108; JP WO2009028736 A1 20101209; PL 2184372 T3 20140331; US 2010284849 A1 20101111; WO 2009028736 A1 20090305

DOCDB simple family (application)

**EP 08828246 A 20080829**; ES 08828246 T 20080829; JP 2008066028 W 20080829; JP 2009530233 A 20080829; PL 08828246 T 20080829; US 67528308 A 20080829