

Title (en)

METHOD FOR PRODUCING OXIDATION-RESISTANT HIGH Cr FERRITIC HEAT RESISTANT STEEL

Title (de)

VERFAHREN ZUR HERSTELLUNG VON OXIDATIONSBESTÄNDIGEM Cr-REICHEM FERRITISCHEM HITZEBESTÄNDIGEM STAHL

Title (fr)

PROCEDE DE PRODUCTION D'ACIER FERRITIQUE A HAUTE TENEUR EN CR RESISTANT A LA CHALEUR ET A L'OXYDATION

Publication

EP 1557477 B1 20090121 (EN)

Application

EP 03770135 A 20031104

Priority

- JP 0314066 W 20031104
- JP 2002320568 A 20021101

Abstract (en)

[origin: WO2004040031A1] A high Cr ferritic heat-resistant steel (having a Cr content of 15 mass % or less), which has a deformation texture comprising elongated ferrite grains or a fine crystal grain structure having a ferrite grain diameter of 3 μm or less in the region having a depth from the surface of at least 10 μm, and has a protective film on the surface thereof. The high Cr ferritic heat-resistant steel has an improved resistance to oxidation with no reduction of strength at a high temperature or toughness.

IPC 8 full level

C21D 8/00 (2006.01); **C22C 38/00** (2006.01); **C21D 6/00** (2006.01); **C21D 7/00** (2006.01); **C21D 7/13** (2006.01); **C22C 38/18** (2006.01); **C22C 38/22** (2006.01)

CPC (source: EP KR US)

C21D 6/002 (2013.01 - EP KR US); **C21D 7/13** (2013.01 - EP KR US); **C21D 8/005** (2013.01 - EP KR US); **C22C 38/22** (2013.01 - EP KR US); **C21D 2211/005** (2013.01 - EP KR US)

Cited by

WO2020074249A1

Designated contracting state (EPC)

DE DK FR GB

DOCDB simple family (publication)

WO 2004040031 A1 20040513; CN 1329543 C 20070801; CN 1692171 A 20051102; DE 60325995 D1 20090312; DK 1557477 T3 20090518; EP 1557477 A1 20050727; EP 1557477 A4 20060503; EP 1557477 B1 20090121; JP 2004156075 A 20040603; JP 4253719 B2 20090415; KR 100619158 B1 20060831; KR 20040089657 A 20041021; US 2004250923 A1 20041216

DOCDB simple family (application)

JP 0314066 W 20031104; CN 200380100178 A 20031104; DE 60325995 T 20031104; DK 03770135 T 20031104; EP 03770135 A 20031104; JP 2002320568 A 20021101; KR 20047013060 A 20031104; US 50115204 A 20040813