

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

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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

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