

Title (en)
HIGH Cr FERRITIC HEAT RESISTANCE STEEL

Title (de)
HOCHCHROMHALTIGER, WÄRMEBESTÄNDIGER, FERITISCHER STAHL

Title (fr)
ACIER FERRITIQUE THERMORESISTANT A TENEUR ELEVEE EN Cr

Publication
EP 1103626 B1 20021204 (EN)

Application
EP 99925355 A 19990616

Priority
• JP 9903231 W 19990616
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Abstract (en)
[origin: WO0003050A1] A Cr ferritic heat resistance steel containing 0.02 to 0.15 % of C, 0.05 to 1.5 % of Mn, 0.03 % or less of P, 0.015 % or less of S, 8 to 13 % of Cr, 1.5 to 4 % of W, 2 to 6 % of Co, 0.1 to 0.5 % of V, 0.01 to 0.15 % of Ta, 0.01 to 0.15 % of Nb, 0.001 to 0.2 % of Nd, less than 0.02 % of N, 0.0005 to 0.02 % of B, 0.001 to 0.05 % of Al, with the proviso that the contents of Nb and N satisfy the formula, which is excellent in the creep strength under a condition of a high temperature and long duration and in toughness, and can be used under an extra supercritical pressure condition of 650 DEG C or higher and 300 atm.

IPC 1-7
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IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/30** (2006.01); **C22C 38/32** (2006.01); **C21D 8/02** (2006.01)

CPC (source: EP US)
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Cited by
CN104907470A; CN108754335A; EP3943634A4; US7128791B2; WO02061162A1

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WO 0003050 A1 20000120; DE 69904336 D1 20030116; DE 69904336 T2 20030821; EP 1103626 A1 20010530; EP 1103626 A4 20020116; EP 1103626 B1 20021204; JP 2000026940 A 20000125; JP 3982069 B2 20070926; US 2002020473 A1 20020221

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