

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 A4 20020116 (EN)**

Application  
**EP 99925355 A 19990616**

Priority  
• JP 9903231 W 19990616  
• JP 19308498 A 19980708

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)

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Citation (search report)  
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• [A] EP 0703301 A1 19960327 - SUMITOMO METAL IND [JP]  
• [A] EP 0754774 A1 19970122 - MITSUBISHI HEAVY IND LTD [JP]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09 30 September 1997 (1997-09-30)  
• See references of WO 0003050A1

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