

Title (en)

Steam turbine rotor materials for high-temperature applications

Title (de)

Hochtemperaturwerkstoffe für Dampfturbinenrotor

Title (fr)

Matériau à applications à hautes températures pour rotor de turbine à vapeur

Publication

EP 0754774 A1 19970122 (EN)

Application

EP 96103067 A 19960229

Priority

JP 17976995 A 19950717

Abstract (en)

A steam turbine rotor material for high-temperature applications consisting essentially of, on a weight percentage basis, 0.05 to 0.13% carbon, 0.005 to 0.1% silicon, 0.01 to 0.5% manganese, 9 to 12% chromium, 0.1 to 0.3% vanadium, 0.01 to 0.15% niobium and/or tantalum, 0.01 to 0.1% nitrogen, 0.05 to 0.5% molybdenum, 1.5 to 3% tungsten, 1 to 4% cobalt, and the balance being iron and incidental impurities.

IPC 1-7

C22C 38/30; **C22C 38/32**; **C22C 38/22**; **C22C 38/24**; **C22C 38/26**; **C22C 38/00**

IPC 8 full level

F01D 5/02 (2006.01); **C22C 38/00** (2006.01); **C22C 38/22** (2006.01); **C22C 38/30** (2006.01); **C22C 38/32** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP)

C22C 38/001 (2013.01); **C22C 38/22** (2013.01); **C22C 38/30** (2013.01)

Citation (search report)

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- [XP] WO 9601334 A1 19960118 - KANSAI ELECTRIC POWER CO [JP], et al
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