

Title (en)
HIGHLY CORROSION AND WEAR RESISTANT CHILLED CASTING

Title (de)
HARTGUSS MIT HOHER KORROSIONS- UND VERSCHLEISSBESTÄNDIGKEIT

Title (fr)
FONTE COQUILLEE A HAUTE RESISTANCE A LA CORROSION ET A L'USURE

Publication
EP 0760019 A1 19970305 (DE)

Application
EP 95921744 A 19950511

Priority

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Abstract (en)
[origin: US6165288A] PCT No. PCT/EP95/01784 Sec. 371 Date Nov. 18, 1996 Sec. 102(e) Date Nov. 18, 1996 PCT Filed May 11, 1995 PCT Pub. No. WO95/31581 PCT Pub. Date Nov. 23, 1995A chilled casting is characterized by high corrosion resistance in aggressive media and by a wear resistance that approaches that of commercially available types of chilled casting. The disclosed chilled casting contains 36 to 46% by weight Cr, 5 to 12% weight Ni, 2 to 6% by weight Mo, up to 3% by weight Cu, up to 0.2% by weight N, up to 1.5% by weight Si, up to 1.5% by weight Mn and 1.4 to 1.9% by weight C, the remainder being Fe and impurities due to the production process. The chilled casting further contains 20 to 40% by volume austenite, 20 to 40% by volume ferrite and 20 to 40% by volume carbides having a lattice structure.

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C22C 37/08

IPC 8 full level
C22C 37/00 (2006.01); **C22C 37/08** (2006.01)

CPC (source: EP US)
C22C 37/08 (2013.01 - EP US); **Y10T 428/12799** (2015.01 - EP US)

Citation (search report)
See references of WO 9531581A1

Citation (examination)

- WEAR, Bd. 48, Nr. 1, Mai 1978 SWITZERLAND, Seiten 35-53, KATAVIC, I
- 'Investigation of the Effect of Abrasive Wear on Carbide Structure in Cast Iron'

Cited by
DE102017223602A1; EP4112222A1; WO2019120975A1

Designated contracting state (EPC)
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US 6165288 A 20001226; AT E160386 T1 19971215; AU 2670395 A 19951205; AU 679381 B2 19970626; BR 9507840 A 19970923; CN 1068068 C 20010704; CN 1148415 A 19970423; EP 0760019 A1 19970305; EP 0760019 B1 19971119; ES 2111405 T3 19980301; JP 3897812 B2 20070328; JP H10500176 A 19980106; WO 9531581 A1 19951123

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US 73749196 A 19961118; AT 95921744 T 19950511; AU 2670395 A 19950511; BR 9507840 A 19950511; CN 95193067 A 19950511; EP 9501784 W 19950511; EP 95921744 A 19950511; ES 95921744 T 19950511; JP 52934695 A 19950511