

Title (en)

HIGHLY CORROSION AND WEAR RESISTANT CHILLED CASTING

Title (de)

HARTGUSS MIT HOHER KORROSIONS- UND VERSCHLEISSBESTÄNDIGKEIT

Title (fr)

FORGE COQUILLEE A HAUTE RESISTANCE A LA CORROSION ET A L'USURE

Publication

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Application

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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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CPC (source: EP US)

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