

Title (en)

Steel for big-sized moulds and process for manufacturing the steel

Title (de)

Stahl für Formen grosser Abmessungen und Verfahren zu seiner Herstellung

Title (fr)

Acier pour moules de grandes dimensions et procédé de fabrication

Publication

EP 0882808 B1 20020123 (FR)

Application

EP 98401272 A 19980528

Priority

FR 9707138 A 19970604

Abstract (en)

[origin: EP0882808A1] Steel for making large moulds comprises by weight: 1-3% manganese, up to 0.400% silicon, up to 0.015% phosphorous, 1.50-3.5% chromium, 0.25-1% molybdenum, 0.100-0.250% niobium, 100-300 ppm titanium or zirconium if necessary, up to 0.300% copper, up to 0.300% nickel, up to 80ppm nitrogen, up to 80 ppm oxygen, up to 30 ppm calcium, 15-50 ppm boron, 0.10-0.25% carbon, up to 0.0250% sulphur and up to 250 ppm aluminium, the balance being iron and impurities. Also claimed is making this steel by melting in an electric furnace, then degassing under a vacuum below 1, preferably 0.2 torr, in a heated ladle.

IPC 1-7

C22C 38/38

IPC 8 full level

C22C 38/38 (2006.01)

CPC (source: EP)

C22C 38/38 (2013.01)

Cited by

EP2123787A1; FR2838138A1; AU2003258841B2; EP1251187A1; FR2838137A1; EP1081245A1; EP3569719A1; US6358336B1; US9103008B2; US11085108B2; WO2009141556A1; WO03083154A1; WO03083153A1; WO2018004419A1; WO02083965A1

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EP 98401272 A 19980528; AR P980102636 A 19980604; AT 98401272 T 19980528; AU 6981098 A 19980529; BR 9814777 A 19980528; CN 98103518 A 19980603; DE 69803514 T 19980528; ES 98401272 T 19980528; FR 9707138 A 19970604; HK 99105050 A 19991104; MY PI9802472 A 19980603; PT 98401272 T 19980528; SG 1998001099 A 19980521