

Title (en)

Manufacturing process for steels, suitable for big-sized moulds

Title (de)

Verfahren zur Herstellung eines Stahles für Formen grosser Abmessungen

Title (fr)

Procédé de fabrication d'un acier pour moules de grandes dimensions

Publication

**EP 0882808 A1 19981209 (FR)**

Application

**EP 98401272 A 19980528**

Priority

FR 9707138 A 19970604

Abstract (en)

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)

Citation (search report)

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- [A] EP 0508237 A1 19921014 - BETHLEHEM STEEL CORP [US]
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