

Title (en)

MARTENSITE STAINLESS STEEL FOR AN INJECTION-MOULDING MOULD HAVING IMPROVED CORROSION RESISTANCE

Title (de)

MARTENSITISCHER EDELSTAHL MIT ERHÖHTER KORROSIONSFESTIGKEIT FÜR EINE SPRITZGUSSFORM

Title (fr)

ACIER INOXYDABLE DE MARTENSITE POUR UN MOULE DE MOULAGE PAR INJECTION AYANT UNE RÉSISTANCE À LA CORROSION AMÉLIORÉE

Publication

**EP 2518176 B1 20180516 (EN)**

Application

**EP 10839728 A 20101220**

Priority

- KR 20090128883 A 20091222
- KR 2010009107 W 20101220

Abstract (en)

[origin: EP2518176A2] Provided is a martensitic stainless steel for an injection-molding mold having outstanding machinability and corrosion resistance, which contains, as percentages by weight, 0.03 to 0.12% carbon, 0.02 to 0.08% nitrogen, 0.3 to 0.7% silicon, 0.6 to 2% manganese, 0.001 to 0.03% phosphorus, 0.1 to 0.3% sulfur, 11.5 to 15% chromium, 0.05 to 1% copper, 0.6 to 3% nickel and 0.0005 to 0.003% calcium, and iron and other unavoidable impurities as remnants.

IPC 8 full level

**C22C 38/18** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/20** (2006.01); **C22C 38/42** (2006.01)

CPC (source: CN EP KR)

**C22C 38/001** (2013.01 - CN EP); **C22C 38/002** (2013.01 - CN EP); **C22C 38/02** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/18** (2013.01 - KR); **C22C 38/42** (2013.01 - EP); **C22C 38/58** (2013.01 - KR); **C22C 38/60** (2013.01 - CN); **C21D 2211/008** (2013.01 - CN)

Cited by

CN105562691A

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DOCDB simple family (publication)

**EP 2518176 A2 20121031**; **EP 2518176 A4 20161123**; **EP 2518176 B1 20180516**; CN 102686761 A 20120919; CN 104561833 A 20150429; KR 101268764 B1 20130529; KR 20110072089 A 20110629; WO 2011078531 A2 20110630; WO 2011078531 A3 20111117

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**EP 10839728 A 20101220**; CN 201080059251 A 20101220; CN 201410697669 A 20101220; KR 20090128883 A 20091222; KR 2010009107 W 20101220