

Title (en)
MARTENSITIC STAINLESS STEEL, METHOD FOR MAKING PARTS FROM SAID STEEL AND PARTS THUS MADE

Title (de)
MARTENSITISCHER EDELSTAHL, VERFAHREN ZUR HERSTELLUNG VON TEILEN AUS DIESEM STAHL UND DARAUS HERGESTELLTE TEILE

Title (fr)
ACIER INOXYDABLE MARTENSITIQUE, PROCÉDÉ DE FABRICATION DE PIÈCES RÉALISÉES EN CET ACIER ET PIÈCES AINSI RÉALISÉES.

Publication
EP 2188402 B1 20120523 (FR)

Application
EP 08830336 A 20080825

Priority
• FR 2008051525 W 20080825
• FR 0757451 A 20070910

Abstract (en)
[origin: WO2009034282A1] The invention relates to a martensitic stainless steel characterised in that it comprises in weight percent: - 0.22% < C < 0.32% - 0.05% < N < 0.15%, with 0.33% < C+N < 0.43% - 10% = Cr = 12.4% - 0.10% = V = 0.40% - 0.10% = Mo = 1.0% - traces < Ni = 1.0% - traces < Mn < 1.0% - traces < Si < 1.0% - traces = W = 1.0% - traces < Co < 1.0% - traces = Cu = 1.0% - traces < Ti < 0.010% - traces = Nb = 0.050% - traces = Al = 0.050% - traces < S < 0.020% - traces < O < 0.0040% - traces < P < 0.03% - traces < B < 0.0050% - traces < Ca < 0.020% - traces < Se < 0.010% - traces < La < 0.040% - traces < Ce < 0.040%, the balance consisting of iron and impurities resulting from the production. The invention also relates to a method for producing a part made of such a steel and to the part thus obtained, as a mould element for the production of plastic articles.

IPC 8 full level
C22C 38/18 (2006.01); **C21D 1/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/40** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP US)
C21D 1/22 (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 9/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C21D 2211/008** (2013.01 - EP US)

Cited by
CN111440995A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2920784 A1 20090313; FR 2920784 B1 20101210; CA 2698889 A1 20090319; CN 101861407 A 20101013; EP 2188402 A1 20100526; EP 2188402 B1 20120523; JP 2010539325 A 20101216; KR 20100059965 A 20100604; RU 2010114173 A 20111020; US 2010276038 A1 20101104; WO 2009034282 A1 20090319

DOCDB simple family (application)
FR 0757451 A 20070910; CA 2698889 A 20080825; CN 200880106281 A 20080825; EP 08830336 A 20080825; FR 2008051525 W 20080825; JP 2010523562 A 20080825; KR 20107007729 A 20080825; RU 2010114173 A 20080825; US 67746408 A 20080825