

Title (en)
Cold-worked Steel Object

Title (de)
Kaltarbeitsstahl-Gegenstand

Title (fr)
Objet en acier travaillé à froid

Publication
EP 1471160 B1 20060927 (DE)

Application
EP 04450082 A 20040401

Priority
AT 6272003 A 20030424

Abstract (en)
[origin: EP1471160A1] Steel composition comprises (in wt.%): C 0.6-1.0, Si 0.3-0.85, Mn 0.2-1.5, P up to 0.03, S up to 0.5, Cr 4.0-6.2, Mo 1.9-3.8, Ni below 0.9, V 1.0-2.9, W 1.8-3.4, Cu below 0.7, Co 3.8-5.8, Al below 0.045, N below 0.2, O below 0.012, remainder Fe with inevitable impurities. The material is made using a powder-metallurgical process, with thermal hardening to 64 Rockwell hardness scale C and an impact toughness of 49 J at room temperature.

IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/60** (2006.01); **C22C 1/04** (2006.01); **C22C 38/10** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/30** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/52** (2006.01)

CPC (source: EP US)
C22C 33/0257 (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/30** (2013.01 - EP US)

Cited by
EP2233596A1; WO2022157227A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
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