

Title (en)
Steel for a plastic molding die

Title (de)
Stahl für Kunststoffformen

Title (fr)
Acier pour moule matière plastique

Publication
EP 1728884 A1 20061206 (EN)

Application
EP 06011250 A 20060531

Priority
• JP 2005162823 A 20050602
• JP 2006094094 A 20060330

Abstract (en)
To provide a steel for plastic molding die which possesses enough hardness, wear resistance and corrosion resistance, and is excellent in high-precision processability and mirror polishing properties. The steel for a plastic molding die contains not more than 0.80 wt% C, not less than 0.01 wt% and less than 1.40 wt% Si, not less than 0.05 wt% and not more than 2.0 wt% Mn, not less than 0.005 wt% and not more than 1.00 wt% Ni, not less than 13.0 wt% and not more than 20.0 wt% Cr, not less than 0.20 wt% and not more than 4.0 wt% Mo + 1/2 W, not less than 0.01 wt% and not more than 1.00 wt% V, not less than 0.36 wt% and not more than 0.80 wt% N, not more than 0.02 wt% O, not more than 0.80 wt% Al, and the remainder substantially including Fe and unavoidable impurities.

IPC 8 full level
C22C 38/00 (2006.01)

CPC (source: EP KR US)
C21D 1/18 (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 8/06** (2013.01 - EP US); **C22C 1/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/18** (2013.01 - KR); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP US)

Citation (applicant)
JP 3438121 B2 20030818

Citation (search report)
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DOCDB simple family (publication)
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DOCDB simple family (application)
EP 06011250 A 20060531; JP 2006094094 A 20060330; KR 20060041565 A 20060509; TW 95119539 A 20060602; US 44446006 A 20060601