

Title (en)
Use of an iron based alloy for plastic molds

Title (de)
Verwendung einer Eisenbasislegierung für Kunststoffformen

Title (fr)
Utilisation d'un alliage ferreux pour la fabrication de formes pour la transformation des matières plastiques

Publication
EP 0721995 A3 19961127 (DE)

Application
EP 96890005 A 19960110

Priority
AT 5495 A 19950116

Abstract (en)
[origin: EP0721995A2] Iron-based alloy contains (in wt.%): 0.25-1, pref. 0.4-0.8, C; max. 1 Si; max. 1.6, pref. 0.3-0.8, Mn; 0.1-0.35, pref. 0.12-0.29, N; max. 1, pref. 0.002-0.8, Al; max. 2.8 Co, 14-25, pref. 16-19, Cr; 0.5-3, pref. 0.8-1.5, Mo; max. 3.9, pref. max 1.5 Ni; 0.04-0.4, pref. 0.05-0.2, V; max. 3 W; max. 0.18 Nb; max. 0.2 Ti; and balance Fe plus melting impurities. The sum of C+N is 0.5-1.2, pref. 0.61-0.95. The alloy may contain 0.02-0.45, pref. 0.2-0.3 S. The alloy may be provided with a surface coating of carbide and/or nitride and/or oxide of Ti and/or V and/or Al.

IPC 1-7
C22C 38/22; **C22C 38/44**

IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/44** (2006.01); **C22C 38/52** (2006.01)

CPC (source: EP US)
C22C 38/001 (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US)

Citation (search report)

- [XP] EP 0638658 A1 19950215 - SIMA SA [FR]
- [XY] DE 4212966 A1 19931021 - VER SCHMIEDEWERKE GMBH [DE]
- [A] EP 0348380 A1 19891227 - BOEHLER GMBH [AT]
- [Y] DATABASE WPI Section Ch Week 9317, Derwent World Patents Index; Class A32, AN 93-140023, XP002013876
- [A] DATABASE WPI Section Ch Week 7942, Derwent World Patents Index; Class A32, AN 79-76207B, XP002013877
- [A] DATABASE WPI Section Ch Week 7828, Derwent World Patents Index; Class M27, AN 78-50293A, XP002013878

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AT407647B; CN115679194A; CN111074135A; AT501794A1; AT501794B1; WO2011124970A1; WO2015124169A1; US9163303B2

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