

Title (en)
Material with high ballistic protection

Title (de)
Werkstoff mit hoher ballistischer Schutzwirkung

Title (fr)
Matériau de haute protection ballistique

Publication
EP 1321535 B1 20050323 (DE)

Application
EP 02450278 A 20021209

Priority
• AT 19912001 A 20011219
• AT 19922001 A 20011219

Abstract (en)
[origin: EP1321535A2] Use of an alloy containing (in wt.%): 0.26-0.79 C, 0.2-1.2 Si, 0.2-0.9 Mn, 1.1-7.94 Cr, 0.56-3.49 Mo, 0.26-1.74 V and a balance of Fe as a material for products having a high ballistic protective action is new. The alloy contains P and S in a sum of less than 0.025 wt. %. The sum of the impurity elements As, Sb, Bi, Sn, Zn and B is less than 0.011. <??>Preferred Features: The alloy contains additions of (in wt.%): 0.36-0.64, preferably 0.41-0.58 C, 0.36-0.9, preferably 0.41-0.68 Si, 0.36-0.70, preferably 0.41-0.59 Mn, 1.1-7.94, preferably 2.61-5.2 Cr, 0.56-3.49, preferably 1.30-2.7 Mo, 0.26-1.74, preferably 0.39-0.83 V.

IPC 1-7
C22C 38/22; **C22C 38/24**; **C22C 38/44**; **C22C 38/46**

IPC 8 full level
C22C 38/22 (2006.01); **C22C 38/24** (2006.01); **C22C 38/40** (2006.01); **C22C 38/44** (2006.01); **F41H 5/04** (2006.01)

CPC (source: EP US)
C22C 38/22 (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/40** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **F41H 5/0442** (2013.01 - EP US)

Cited by
DE102007039993A1; DE102008014914A1; DE102008014914B4; EP3754290B1

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DOCDB simple family (publication)
EP 1321535 A2 20030625; **EP 1321535 A3 20030813**; **EP 1321535 B1 20050323**; BR 0205411 A 20040720; CA 2414305 A1 20030619; CA 2414305 C 20060815; DE 50202536 D1 20050428; ES 2238556 T3 20050901; US 2004031353 A1 20040219; US 2008181807 A1 20080731

DOCDB simple family (application)
EP 02450278 A 20021209; BR 0205411 A 20021217; CA 2414305 A 20021213; DE 50202536 T 20021209; ES 02450278 T 20021209; US 32145102 A 20021218; US 87834407 A 20070724