

Title (en)  
Corrosion and wear resistant alloy

Title (de)  
Korrosionsbeständige und verschleissfeste Legierung

Title (fr)  
Alliage résistant à la corrosion et à l'usure

Publication  
**EP 1721999 A1 20061115 (EN)**

Application  
**EP 06252443 A 20060509**

Priority  
US 12435005 A 20050509

Abstract (en)  
A powder metallurgy corrosion and wear resistant tool steel article, and alloy thereof. The article is manufactured by hot isostatic compaction of nitrogen atomized, prealloyed high-chromium, high-vanadium, high-niobium powder particles. The alloy is characterized by very high wear and corrosion resistance, making it particularly useful for use in the manufacture of components for advanced bearing designs as well as machinery parts exposed to severe abrasive wear and corrosion conditions, as encountered, for example, in the plastic injection molding industry and food industry.

IPC 8 full level  
**C22C 38/36** (2006.01); **C22C 33/02** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/30** (2006.01)

CPC (source: EP KR US)  
**C22C 33/0285** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP KR US); **C22C 38/24** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP KR US); **C22C 38/30** (2013.01 - EP US); **C22C 38/36** (2013.01 - EP US)

Citation (search report)

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

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1721999 A1 20061115**; CA 2544482 A1 20061109; CN 1861826 A 20061115; CN 1861826 B 20101215; HK 1095164 A1 20070427; JP 2006322072 A 20061130; JP 5165211 B2 20130321; KR 20060116169 A 20061114; TW 200702457 A 20070116; US 2006249230 A1 20061109

DOCDB simple family (application)  
**EP 06252443 A 20060509**; CA 2544482 A 20060421; CN 200610080137 A 20060509; HK 07100385 A 20070111; JP 2006130432 A 20060509; KR 20060041195 A 20060508; TW 95113921 A 20060419; US 12435005 A 20050509