

Title (en)

A wear and corrosion resistant highly alloyed steel powder

Title (de)

Verschleiss- und Korrosionfester, hochlegierter pulvermetallurgischer Stahl

Title (fr)

Acier en poudre hautement allié résistant à l'usure et à la corrosion

Publication

EP 1785500 B1 20080611 (DE)

Application

EP 06405384 A 20060906

Priority

CH 18022005 A 20051110

Abstract (en)

[origin: EP1785500A1] A type of steel alloy is mixed in powder form of composition (%): 3.4-4.2 carbon; 20-30 chromium; 3-10 tungsten; 0-4 molybdenum; 0-6 nickel; 0.6-1.0 silicon; 0.2-0.4 manganese; 4.75-5.25 vanadium; 0.75-1.25 niobium; and balance iron and impurities. The steel in solid form is formed in a capsule by hot isostatic pressure of the powder in this composition.

IPC 8 full level

C22C 33/02 (2006.01); **C22C 37/06** (2006.01); **C22C 37/08** (2006.01); **C22C 38/56** (2006.01)

CPC (source: EP)

C22C 33/0285 (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/12** (2013.01); **C22C 38/22** (2013.01); **C22C 38/24** (2013.01); **C22C 38/36** (2013.01); **B22F 2998/10** (2013.01)

C-Set (source: EP)

B22F 2998/10 + **B22F 9/082** + **B22F 3/15**

Cited by

EP2910663A1; US8765052B2; WO2013148674A3

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DOCDB simple family (publication)

EP 1785500 A1 20070516; **EP 1785500 B1 20080611**; AT E398191 T1 20080715; DE 502006000902 D1 20080724; ES 2309935 T3 20081216; PT 1785500 E 20080915

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