

Title (en)
SINTERED PART MADE OF STAINLESS STEEL POWDER

Title (de)
GESINTERTES BAUTEIL AUS EDELSTAHPULVER

Title (fr)
PART FRITTE FAIT DE POUDRE D'ACIER INOXYDABLE

Publication
EP 1768803 A1 20070404 (EN)

Application
EP 05755291 A 20050701

Priority
• SE 2005001086 W 20050701
• SE 0401707 A 20040702

Abstract (en)
[origin: WO2006004529A1] The invention concerns a stainless steel powder and composition comprising at least 10w-t% chromium. Vanadium is present in an amount of at least 4 times the amount of carbon and nitrogen. The steel powder comprises 10-30% chromium, 0.1-1.0 vanadium, 0.5-1.5% silicon, less than 0.1% carbon and less than 0.07% nitrogen. A process for preparing a sintered part and a sintered part are also claimed.

IPC 8 full level
B22F 1/10 (2022.01); **C22C 33/02** (2006.01)

IPC 8 main group level
C22C (2006.01)

CPC (source: EP US)
B22F 1/10 (2022.01 - EP US); **C22C 33/0285** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP); **C22C 38/24** (2013.01 - EP);
B22F 2998/00 (2013.01 - EP); **B22F 2998/10** (2013.01 - EP)

Citation (search report)
See references of WO 2006004529A1

Cited by
EP3050985A1; EP3042975A3; EP3054024A1

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

DOCDB simple family (publication)
WO 2006004529 A1 20060112; AT E483541 T1 20101015; AU 2005260139 A1 20060112; AU 2005260139 B2 20090903;
BR PI0512943 A 20080415; CA 2572130 A1 20060112; CA 2572130 C 20110118; CN 101124058 A 20080213; CN 101124058 B 20100616;
DE 602005023998 D1 20101118; DK 1768803 T3 20110131; EP 1768803 A1 20070404; EP 1768803 B1 20101006; ES 2354019 T3 20110309;
JP 2008505248 A 20080221; JP 4580984 B2 20101117; MX PA06015244 A 20070315; RU 2007104054 A 20080810; RU 2345866 C2 20090210;
SE 0401707 D0 20040702; TW 200605972 A 20060216; TW I279268 B 20070421; UA 83145 C2 20080610; ZA 200700040 B 20080625

DOCDB simple family (application)
SE 2005001086 W 20050701; AT 05755291 T 20050701; AU 2005260139 A 20050701; BR PI0512943 A 20050701; CA 2572130 A 20050701;
CN 200580021798 A 20050701; DE 602005023998 T 20050701; DK 05755291 T 20050701; EP 05755291 A 20050701;
ES 05755291 T 20050701; JP 2007519170 A 20050701; MX PA06015244 A 20050701; RU 2007104054 A 20050701; SE 0401707 A 20040702;
TW 94122382 A 20050701; UA A200701061 A 20050701; ZA 200700040 A 20050701