

Title (en)

METHOD OF MAKING CEMENTED CARBIDE BY POWDER INJECTION MOLDING

Title (de)

VERFAHREN ZUM HERSTELLEN VON ZEMENTIERTEM CARBID DURCH SPRITZGIESSEN VON PULVER

Title (fr)

PROCEDE DE FABRICATION DE CARBURE FRITTE PAR MOULAGE PAR INJECTION DE POUDRES

Publication

**EP 0963454 B1 20021211 (EN)**

Application

**EP 97910662 A 19971014**

Priority

- SE 9701715 W 19971014
- SE 9603936 A 19961025

Abstract (en)

[origin: WO9818973A1] The present invention relates to a method of making a sintered body comprising one or more hard constituents in a binder phase by injection molding technique comprising wet milling of a powder mixture containing powders forming the hard constituents and binder phase, drying said milled powder mixture, mixing said powder mixture with organic binder, waxes and surfactant into a feedstock, molding the feedstock into bodies of desired shape in a conventional plastic molding machine, removing the binder from said bodies and sintering. If the surfactant is introduced already during the milling operation the level of porosity in bodies is significantly reduced.

IPC 1-7

**C22C 29/00**; **C22C 1/05**

IPC 8 full level

**C04B 35/00** (2006.01); **B22F 3/10** (2006.01); **C04B 35/628** (2006.01); **C22C 1/05** (2006.01); **C22C 29/08** (2006.01)

CPC (source: EP)

**B22F 3/225** (2013.01); **C22C 1/051** (2013.01); **C22C 29/08** (2013.01)

Cited by

EP2576102A4; EP1749601A1; EP2860274A2; US10538829B2; US8425652B2; EP2857124A1; US9475945B2; US9796633B2

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

**WO 9818973 A1 19980507**; AT E229574 T1 20021215; DE 69717861 D1 20030123; DE 69717861 T2 20030508; EP 0963454 A1 19991215; EP 0963454 B1 20021211; JP 2001507075 A 20010529; SE 9603936 D0 19961025

DOCDB simple family (application)

**SE 9701715 W 19971014**; AT 97910662 T 19971014; DE 69717861 T 19971014; EP 97910662 A 19971014; JP 52034898 A 19971014; SE 9603936 A 19961025