

Title (en)

METHOD OF PRODUCING CEMENTED CARBIDE OR CERMET ALLOY.

Title (de)

VERFAHREN ZUR HERSTELLUNG GESINTERTEN KARBIDS ODER CERMETLEGIERUNG.

Title (fr)

PROCEDE DE PRODUCTION DE CARBURE CEMENTE OU D'ALLIAGE DE CERMET.

Publication

EP 0443048 B1 19941214

Application

EP 90913553 A 19900912

Priority

- JP 9001171 W 19900912
- JP 23884989 A 19890914

Abstract (en)

[origin: WO9104119A1] A method of producing cemented carbide or cermet alloy comprising mixing and kneading cemented carbide powder or cermet alloy powder with an organic binder, molding this mixed powder into a predetermined shape by injection molding, removing the organic binder from the resulting mold and sintering the mold to obtain a compact alloy. The removal of the organic binder is carried out in a first removing step in an inert gas atmosphere and subsequently in a second removing step in vacuum of 1 Torr or below. In the first removing step, the pressure of the atmosphere is kept at or above the atmospheric pressure so as to prevent the occurrence of defects in the mold. After continuous fine pores are formed inside the mold, the pressure of the atmosphere is kept near vacuum in order to promote the evaporation of the gas from the surface and the release of the gas generated inside the mold.

IPC 1-7

B22F 3/10; **C22C 1/05**

IPC 8 full level

B22F 3/00 (2006.01); **B22F 3/10** (2006.01); **B22F 3/22** (2006.01); **C22C 1/05** (2006.01)

CPC (source: EP KR)

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C-Set (source: EP)

1. **B22F 2998/00** + **B22F 3/225**
2. **B22F 2998/00** + **B22F 3/22**

Cited by

EP2379253A4; CN104357696A; CN116023143A; EP1510590A3; EP0516165A3; US5403373A; US6641640B1; US8951463B2; WO9734720A1; WO9818973A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 9104119 A1 19910404; CA 2041668 A1 19910315; CA 2041668 C 19990803; DE 69015150 D1 19950126; DE 69015150 T2 19950504; EP 0443048 A1 19910828; EP 0443048 A4 19911030; EP 0443048 B1 19941214; JP H03177506 A 19910801; KR 920700819 A 19920810; KR 940009337 B1 19941007; TW 225493 B 19940621

DOCDB simple family (application)

JP 9001171 W 19900912; CA 2041668 A 19900912; DE 69015150 T 19900912; EP 90913553 A 19900912; JP 24301090 A 19900912; KR 910700490 A 19910514; TW 79107703 A 19900913