

Title (en)

HARD METAL OR CERAMET BODY AND METHOD FOR PRODUCING THE SAME

Title (de)

HARTMETALL- ODER CERMET-KÖRPER UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

CORPS EN METAL DUR OU EN CERMET, ET SON PROCEDE DE PRODUCTION

Publication

EP 1095168 B1 20020724 (DE)

Application

EP 99941397 A 19990626

Priority

- DE 9901875 W 19990626
- DE 19830385 A 19980708
- DE 19845376 A 19981002
- DE 19922057 A 19990514

Abstract (en)

[origin: WO0003047A1] The invention relates to a hard metal or ceramet body with a hard material phase consisting of WC and/or at least one carbide, nitride, carbonitride and/or oxycarbonitride of at least one of the elements from group IVa, Va, or VIa of the periodic table and a binding metal phase consisting of Fe, Co and/or Ni, said binding metal phase making up 3 to 25 mass %. In particular, WC crystallites should protrude beyond the hard metal or ceramet surface of the body by 2 to 20 μm in order to improve the adhesion of surface layers that are applied.

IPC 1-7

C22C 29/08; **C22C 29/04**; **C22C 1/05**

IPC 8 full level

C22C 1/05 (2006.01); **C22C 29/00** (2006.01); **C22C 29/08** (2006.01); **C23C 30/00** (2006.01)

CPC (source: EP US)

C22C 1/051 (2013.01 - EP US); **C22C 29/00** (2013.01 - EP US); **C22C 29/08** (2013.01 - EP US); **C23C 30/005** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US); **Y10T 428/12028** (2015.01 - EP US)

C-Set (source: EP US)

1. **B22F 2998/00** + **B22F 2207/03** + **B22F 2207/07**
2. **B22F 2999/00** + **B22F 2207/03** + **B22F 3/101**
3. **B22F 2999/00** + **B22F 2207/03** + **B22F 3/1017**

Designated contracting state (EPC)

AT DE FR GB IT LU SE

DOCDB simple family (publication)

WO 0003047 A1 20000120; AT E221140 T1 20020815; EP 1095168 A1 20010502; EP 1095168 B1 20020724; US 6506226 B1 20030114

DOCDB simple family (application)

DE 9901875 W 19990626; AT 99941397 T 19990626; EP 99941397 A 19990626; US 67473900 A 20001103