

Title (en)

Process for preparing an electro-conductive cermet

Title (de)

Verfahren zur Herstellung eines elektrisch leitenden Cermets

Title (fr)

Procédé de préparation d'un cermet électroconducteur

Publication

**EP 0724021 B1 20050330 (DE)**

Application

**EP 95113512 A 19950829**

Priority

DE 19502129 A 19950125

Abstract (en)

[origin: EP0724021A1] Production of an electrically conductive cermet with less than 35% by volume of a noble metal by mixing powders of a highly heat-resistant ceramic and a noble metal, moulding a green body of this powder mixture and sintering to form a cermet consisting of a dense ceramic phase and a cohesive net of a metallic phase is novel in that a noble metal powder is used which during sintering and formation of a metallic phase exhibits a smaller volume reduction and a smaller sinter activity than the ceramic powder during formation of a ceramic phase.

IPC 1-7

**C22C 29/12**; **C22C 32/00**; **B22F 1/00**

IPC 8 full level

**C22C 1/05** (2006.01); **B22F 1/05** (2022.01); **B22F 1/06** (2022.01); **B22F 1/12** (2022.01); **C22C 29/12** (2006.01); **C22C 32/00** (2006.01); **H01B 1/16** (2006.01)

CPC (source: EP US)

**B22F 1/05** (2022.01 - EP US); **B22F 1/06** (2022.01 - EP US); **B22F 1/12** (2022.01 - EP US); **C22C 29/12** (2013.01 - EP US); **C22C 32/0021** (2013.01 - EP US); **H01B 1/16** (2013.01 - EP US)

Citation (examination)

- US 4183746 A 19800115 - PEARCE STEPHEN L [GB], et al
- US 3901717 A 19750826 - REVAZ FRANCIS
- US 4234338 A 19801118 - MORGAN CHESTER S, et al

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0724021 A1 19960731**; **EP 0724021 B1 20050330**; DE 19502129 A1 19960801; DE 19502129 C2 20030320; DE 59510995 D1 20050504; JP H08269592 A 19961015; US 5796019 A 19980818

DOCDB simple family (application)

**EP 95113512 A 19950829**; DE 19502129 A 19950125; DE 59510995 T 19950829; JP 2872696 A 19960124; US 58351696 A 19960105