

Title (en)

Electroconductive cermet compositions for ignition and heating appliances.

Title (de)

Zusammensetzungen von elektr leitendem Cermet für Zündungs- und Heizungsanordnungen.

Title (fr)

Composition de cermet conducteur pour dispositifs d'allumage et de chauffage.

Publication

**EP 0353196 A1 19900131 (EN)**

Application

**EP 89810563 A 19890724**

Priority

CH 287688 A 19880728

Abstract (en)

These compositions comprise a metal powder dispersed in an alumina-based ceramic matrix. The grains of the powder are partly oxidized to an adherent surface film of oxide which imparts thereto enhanced affinity and reinforcement properties to the matrix. Spark-and glow-plugs electrodes manufactured from these cermets demonstrate outstanding resistance to hot-corrosion and electro-erosion.

IPC 1-7

**C22C 29/12**; **F23Q 7/00**; **H01T 13/39**

IPC 8 full level

**C22C 1/05** (2006.01); **C22C 29/12** (2006.01); **C22C 32/00** (2006.01); **F02P 13/00** (2006.01); **F23Q 7/00** (2006.01); **H01C 7/00** (2006.01); **H01T 13/39** (2006.01); **H05B 3/14** (2006.01)

CPC (source: EP KR)

**C22C 29/12** (2013.01 - EP); **F23Q 7/001** (2013.01 - EP); **H01B 1/02** (2013.01 - KR); **H01T 13/39** (2013.01 - EP); **F23Q 2007/004** (2013.01 - EP)

Citation (search report)

- [A] US 4659960 A 19870421 - TOYA AKIHIRO [JP], et al
- [AD] EP 0171153 A1 19860212 - GEN MOTORS CORP [US]
- [A] DE 3038649 A1 19810423 - NGK SPARK PLUG CO [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 6, no. 74 (M-127)(952) 11 May 1982, & JP-A-57 012 221 (HITACHI SEISAKUSHO K.K.) 22 January 1982,

Cited by

CN116477953A; US6043459A; US6121577A; US6971258B2; WO2005066611A3; WO2007031371A1; US7275415B2; US7549317B2; US6927362B2; EP0400950B1; WO0202933A1

Designated contracting state (EPC)

BE DE ES FR GB IT

DOCDB simple family (publication)

**EP 0353196 A1 19900131**; **EP 0353196 B1 19930519**; AR 241806 A1 19921230; AU 3899189 A 19900503; AU 603737 B2 19901122; CH 676525 A5 19910131; DE 68906610 D1 19930624; DE 68906610 T2 19931125; JP H02250938 A 19901008; KR 900002344 A 19900228; KR 920000219 B1 19920110; MX 170365 B 19930818; ZA 895656 B 19900725

DOCDB simple family (application)

**EP 89810563 A 19890724**; AR 31451989 A 19890727; AU 3899189 A 19890726; CH 287688 A 19880728; DE 68906610 T 19890724; JP 19157389 A 19890726; KR 890010514 A 19890725; MX 1694689 A 19890727; ZA 895656 A 19890725