

Title (en)

METHOD AND DEVICE FOR PLASMA-DETONATION WORKING OF METAL ARTICLES

Publication

**EP 0531527 A4 19940518 (EN)**

Application

**EP 91907287 A 19910327**

Priority

SU 9100051 W 19910327

Abstract (en)

[origin: WO9217619A1] A method for plasma-detonation working of metal articles provides for filling a reaction chamber (1) with a combustible gas mixture and with a powder material and introducing into the chamber (1), in particular, an element selected from groups III, IV, V, VI of the periodic system of elements, after which detonation burning of the combustible gas mixture is initiated outside the chamber (1) and the electric current is passed through the combustion products of the mixture, the powder material and the introduced element. For that purpose, in a device implementing the method, a nozzle (4) for introducing said element into the chamber (1) is provided, in particular, in the wall of the chamber (1).

IPC 1-7

**C23C 4/00**

IPC 8 full level

**B05B 7/00** (2006.01); **B05B 7/20** (2006.01); **C23C 4/00** (2006.01); **C23C 4/12** (2006.01)

CPC (source: EP)

**B05B 7/0006** (2013.01); **C23C 4/126** (2016.01)

Citation (search report)

- [A] DE 2905728 A1 19800828 - DUDKO
- [A] GB 2159540 A 19851204 - WEDTECH CORP
- [A] DE 1935123 A1 19730628 - NIPPON TUNGSTEN
- [A] EP 0401372 A1 19901212 - UNIV NOVOSIBIRSKY [SU], et al
- See references of WO 9217619A1

Cited by

WO9834440A1; WO9723302A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**WO 9217619 A1 19921015**; DE 69128715 D1 19980219; EP 0531527 A1 19930317; EP 0531527 A4 19940518; EP 0531527 B1 19980114; FI 925429 A0 19921127; FI 925429 A 19921127; FI 98740 B 19970430; FI 98740 C 19970811

DOCDB simple family (application)

**SU 9100051 W 19910327**; DE 69128715 T 19910327; EP 91907287 A 19910327; FI 925429 A 19921127