

Title (en)

PLASMA TORCH FOR PLASMA SPRAYING EQUIPMENT AND PERTAINING ANODE

Title (de)

PLASMABRENNER FÜR PLASMASPRITZANLAGEN UND ZUGEHÖRIGE ANODE

Title (fr)

TORCHE A PLASMA POUR INSTALLATION DE PROJECTION AU PLASMA ET SON ANODE

Publication

**EP 1013155 A1 20000628 (DE)**

Application

**EP 98914832 A 19980226**

Priority

- DE 9800599 W 19980226
- DE 19707699 A 19970226

Abstract (en)

[origin: DE19707699C1] A plasma torch (10) for a plasma spraying system has anode and cathode (22) electrodes with active electrode sections which interact directly with the arc struck between the electrodes and which consist of a high melting metallic material. The active anode section (30) material and the active cathode section material has insignificant and significant contents, respectively, of additions in the form of dopants with low electron emission work function. Preferably, the active anode section (30) material has a dopant content of  $\leq 1.0$  (preferably  $\leq 0.01$ , especially 0) wt. %, and the active electrode sections are powder metallurgically produced from tungsten and/or molybdenum powder containing up to 1 wt.% group VIII element (preferably nickel, palladium and/or platinum) as sintering activating material.

IPC 1-7

**H05H 1/34**

IPC 8 full level

**H05H 1/34** (2006.01)

CPC (source: EP US)

**H05H 1/34** (2013.01 - EP US)

Citation (search report)

See references of WO 9838841A1

Designated contracting state (EPC)

AT CH LI

DOCDB simple family (publication)

**DE 19707699 C1 19980723**; EP 1013155 A1 20000628; WO 9838841 A1 19980903

DOCDB simple family (application)

**DE 19707699 A 19970226**; DE 9800599 W 19980226; EP 98914832 A 19980226