

Title (en)

PLASMA SPRAY TORCH WITH COOLED ELECTRODE AND NOZZLE

Publication

**EP 0171793 B1 19910102 (DE)**

Application

**EP 85110152 A 19850813**

Priority

DE 3430383 A 19840817

Abstract (en)

[origin: US4661682A] In a plasma spray gun (1) including a cooled electrode (10) and burner nozzle (12) for insertion in pipes and bores of work pieces and for coating the inner surfaces of these work pieces, for the coating of bores with a minimal diameter of 25 mm the electrode (10) is designed rotation-asymmetrically in the area of its head (15), and the diameter of the electrode (10) is smaller than the minimal inner diameter of the burner nozzle (12), while the burner nozzle (12) on the end facing away from the electrode (10) has at least one partial area (17) with an inner diameter which is larger than its minimal inner diameter, and the powder injector (13) has a flat exit cross-section.

IPC 1-7

**B05B 7/22**; **H05H 1/34**; **H05H 1/42**

IPC 8 full level

**B05B 7/16** (2006.01); **B05B 7/22** (2006.01); **H05H 1/34** (2006.01); **H05H 1/42** (2006.01)

CPC (source: EP US)

**H05H 1/34** (2013.01 - EP US); **H05H 1/3463** (2021.05 - EP); **H05H 1/3478** (2021.05 - EP); **H05H 1/42** (2013.01 - EP US); **H05H 1/3463** (2021.05 - US); **H05H 1/3478** (2021.05 - US)

Citation (examination)

- DE 1546810 A1 19701022 - L AIR LIQUIDE S A POUR L EXPL
- US 3936586 A 19760203 - TYLKO JOSEF KAZIMIERZ

Cited by

DE4240991A1; EP0640022A4; EP0585203A1; DE4228064A1; EP1065914A1; EP2779804A3; EP0645946A1; US5233153A; EP0362693A1; US6386140B1; US9227214B2

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