

Title (en)

Plasma spray nozzle with internal injection

Title (de)

Plasmaspritzdüse mit innenliegender Injektion

Title (fr)

Tuyère d'injection de plasma dotée d'une injection située à l'intérieur

Publication

**EP 2549839 A3 20130424 (DE)**

Application

**EP 12007145 A 20091104**

Priority

- EP 12007145 A 20091104
- EP 09013864 A 20091104

Abstract (en)

[origin: EP2320714A1] The spray nozzle (1) has divergent region containing divergent portion (16). The divergent portion is arranged at the primary end of inner channel (4). The powder injection hole (7) is not formed in divergent region. The powder injection hole is formed close to the secondary end of inner channel. Several external cooling fins are arranged between the divergent portion and powder injection hole.

IPC 8 full level

**H05H 1/42** (2006.01)

CPC (source: EP US)

**B05B 7/226** (2013.01 - EP US); **C23C 4/134** (2016.01 - US); **H05H 1/3484** (2021.05 - EP); **H05H 1/42** (2013.01 - EP US); **H05H 1/3484** (2021.05 - US)

Citation (search report)

- [XY] US 2008057212 A1 20080306 - DORIER JEAN-LUC [CH], et al
- [XY] US 6114649 A 20000905 - DELCEA LUCIAN BOGDAN [CA]
- [XY] US 2001041227 A1 20011115 - HISLOP GARY A [US]

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2320714 A1 20110511; EP 2320714 B1 20130515**; CN 102071390 A 20110525; CN 102071390 B 20141217; EP 2547178 A2 20130116; EP 2547178 A3 20130424; EP 2547178 B1 20140716; EP 2547179 A2 20130116; EP 2547179 A3 20130424; EP 2547179 B1 20160323; EP 2549839 A2 20130123; EP 2549839 A3 20130424; US 2011101125 A1 20110505; US 2013334176 A1 20131219; US 8528835 B2 20130910; US 9309587 B2 20160412

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