

Title (en)

Nozzle for device and method for high-speed flame spraying.

Title (de)

Düse für eine Vorrichtung und ein Verfahren zum Hochgeschwindigkeitsflammspritzen.

Title (fr)

Buse pour un dispositif et procédé de pulvérisation à grande vitesse de la flamme.

Publication

**EP 0492384 B1 19950531 (DE)**

Application

**EP 91121679 A 19911218**

Priority

DE 4041623 A 19901222

Abstract (en)

[origin: EP0492384A1] A nozzle (1) for a device for high-speed flame spraying of metallic, metallic-carbide and/or oxide-ceramic materials, the nozzle (1) being fitted with a spraying medium feed, a gas mixture feed with combustion chamber and a cooled acceleration zone (4), is intended to provide a solution by means of which the temperature of the flame is adjustable, wherein the temperature-regulating fluid can be used directly in the high-speed flame spraying. This is achieved if, at least for a part of the cooling of the acceleration zone (4), gas-cooling channels (9) and/or gas-cooling annular spaces for ambient air as cooling gas with injection orifices (11) for drawing the cooling gas into the interior of the nozzle (1) are provided.

IPC 1-7

**B05B 7/20**; **F23D 14/78**

IPC 8 full level

**B05B 7/20** (2006.01); **F23D 14/78** (2006.01)

CPC (source: EP)

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Cited by

EP1038988A3; US2011229649A1; CN115161584A; FR2928278A1; US2015182989A1; DE102011052119A1; EP2959992A1; WO9522033A1; DE102011052120A1; WO2013014211A2; DE102011052121A1; WO2013014213A2; WO2013014214A2; US9533318B2; US9580787B2

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