

Title (en)

LOW-TEMPERATURE HIGH-VELOCITY FLAME SPRAYING SYSTEM

Title (de)

NIEDERTEMPERATUR HOCHGESCHWINDIGKEITS-FLAMMSPRITZSYSTEM

Title (fr)

SYSTEME DE PROJECTION A LA FLAMME, A HAUTE VITESSE ET A BASSE TEMPERATURE

Publication

**EP 1603684 B1 20090311 (DE)**

Application

**EP 03778244 A 20031103**

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- DE 10325432 A 20030605

Abstract (en)

[origin: WO2004045777A1] The invention relates to a low-temperature high-velocity flame spraying system for thermally spraying powdery spray additional materials, comprising at least one connection (1, 3, 9, 26, 27, 44) for introducing operating media consisting of gaseous and liquid fuels into a combustion chamber (30, 36), and comprising an expansion nozzle (5, 26). An additional chamber serving as a mixing chamber (28, X) with an injection system (2, 43, A1) for noncombustible gases and/or for water is provided downstream from the combustion chamber (30, 36). This additional chamber variably lowers the temperature of the hypersonic flame jet exiting the combustion chamber and entering the mixing chamber. At least two injectors (22) for introducing powdery spray additional materials and the expansion nozzle (5, 26) are connected downstream from the mixing chamber (28, X).

IPC 8 full level

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