

Title (en)

Cold gas spraying method and apparatus therefor

Title (de)

Kaltgasspritzverfahren und Vorrichtung dafür

Title (fr)

Méthode de projection gazodynamique à froid des matériaux en poudre et équipement pour sa mise en oeuvre

Publication

EP 1925693 A3 20090225 (FR)

Application

EP 07022932 A 20071127

Priority

RU 2006141982 A 20061127

Abstract (en)

[origin: EP1925693A2] Cold projection of powder materials comprises feeding powder materials with different properties into subsonic and/or supersonic parts of a supersonic nozzle via different feed points. The powder materials are accelerated by a gas stream and are deposited on a surface. An independent claim is also included for a device for cold projection of powder materials, comprising an electric heater (1) for heating pressurized gas, a supersonic nozzle (2) connected to the outlet of the heater, a principal feed device for supplying the nozzle separately with at least two powders, and at least one supplementary feed device for supplying the supersonic parts of the nozzle with at least one powder.

IPC 8 full level

C23C 24/00 (2006.01)

CPC (source: EP)

B05B 7/205 (2013.01); **C23C 24/04** (2013.01)

Citation (search report)

- [X] EP 1403396 A1 20040331 - DELPHI TECH INC [US]
- [X] EP 1712657 A2 20061018 - UNITED TECHNOLOGIES CORP [US]
- [XY] US 2002033135 A1 20020321 - KAY ALBERT [US], et al
- [X] US 6402050 B1 20020611 - KASHIRIN ALEXANDR IVANOVICH [RU], et al
- [XY] WO 2006123965 A1 20061123 - OBSHESTVO S OGRANICHENNOI OTV [RU], et al

Cited by

US11898986B2; WO2008084025A3; WO2008084025A2; US8197895B2; US11935662B2; US11662300B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 07022932 A 20071127; RU 2006141982 A 20061127