

Title (en)

Apparatus for powder coating by laser

Title (de)

Gerät zur Laser-Pulverbeschichtung

Title (fr)

Appareil pour revêtement en poudre par laser

Publication

EP 1247878 B1 20050202 (DE)

Application

EP 02002933 A 20020209

Priority

DE 10116720 A 20010404

Abstract (en)

[origin: EP1247878A1] Device for laser powder coating the inner surface (16) of a component with an especially powdered additional material comprises a laser source (1) optically connected to a device head (3), and a coating lance (4) in which the laser beam is axially directed by a rotating guide (5) toward the lance tip and then toward the inner surface of the component. The coating lance contains a light guide (2) extending from the rotating guide toward the lance tip and guiding the laser beam. Preferred Features: The laser source is a diode laser.

IPC 1-7

C23C 24/10; **C23C 4/16**

IPC 8 full level

C23C 4/16 (2016.01); **C23C 24/10** (2006.01)

CPC (source: EP)

C23C 4/16 (2013.01); **C23C 24/10** (2013.01)

Citation (examination)

- JP H03128183 A 19910531 - TOSHIBA CORP
- JP H07292481 A 19951107 - ISHIKAWAJIMA HARIMA HEAVY IND
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CN104136163A; CN113663828A; FR2909298A1; WO2015197811A1; EP1927424A1; WO2013117754A1; EP2629923B1

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