

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
- EP 0418519 A2 19910327 - MITSUBISHI HEAVY IND LTD [JP]

Cited by

CN104136163A; CN113663828A; FR2909298A1; WO2015197811A1; EP1927424A1; WO2013117754A1; EP2629923B1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 1247878 A1 20021009**; **EP 1247878 B1 20050202**; DE 10116720 A1 20021010; DE 50202153 D1 20050310; ES 2233723 T3 20050616

DOCDB simple family (application)

**EP 02002933 A 20020209**; DE 10116720 A 20010404; DE 50202153 T 20020209; ES 02002933 T 20020209