

Title (en)

Apparatus for the electrostatic spray-coating of articles.

Title (de)

Vorrichtung zum elektrostatischen Beschichten von Gegenständen.

Title (fr)

Dispositif pour l'enduction électrostatique d'articles.

Publication

**EP 0171042 A1 19860212 (DE)**

Application

**EP 85109729 A 19850802**

Priority

- DE 3429075 A 19840807
- US 66593284 A 19841029

Abstract (en)

1. An apparatus for the electrostatic coating of objects with an electrically conductive material, with a spraying device which imparts to the sprayed material a substantially radial component of motion, preferably a rotary atomizer ; with an external housing (7) holding the spray-head (2) and enclosing a line (4) supplying the coating material from a supply system to a spraying edge (6) of the spray-head (2), said line (4) and the material supplied thereby being electrically grounded as far as the spray-head (2) ; with electrodes (20), arranged radially around the spray-head (2) at uniform angular intervals, and said electrodes being connected to a source of high voltage for the purpose of producing an electrical field which charges the coating material ; and with a separate deflecting device which imparts to the sprayed coating material an additional axial component of motion towards the object to be coated, said separate deflecting device preferably comprising at least one annular group of deflecting gas ducts (27, 27') arranged around the axis of the spray device ; characterized in that the radial distance between the charging electrodes (20) and the spraying edge (6) is greater than twice the diameter of the said spraying edge (6).

Abstract (de)

In der für die Verwendung sogenannter wasserlacke oder eines anderen, ähnlich leitfähigen Beschichtungsmaterials geeigneten Vorrichtung wird das die versprühten Partikel aufladende elektrische Feld zwischen der geerdeten Absprühkante (6) eines Glockenzerstäubers (1) und zwei oder drei in einem bestimmten radialen Mindestabstand um den Glockenzerstäuber verteilten nadelförmigen Aussenelektroden (20) erzeugt, die an Hochspannung liegen. Hierbei lässt sich eine optimale Feldverteilung ohne die Notwendigkeit erreichen, den Glockenzerstäuber (1) und das Lackzuleitungssystem gegen Erde isolieren zu müssen.

IPC 1-7

**B05B 5/04**

IPC 8 full level

**B05B 5/04** (2006.01); **B05B 5/053** (2006.01); **B05B 7/08** (2006.01)

CPC (source: EP)

**B05B 5/0403** (2013.01); **B05B 5/0533** (2013.01); **B05B 5/0426** (2013.01)

Citation (search report)

- GB 2124517 A 19840222 - FUJI PHOTO FILM CO LTD
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- DE 2412131 B2 19781207
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- DE 2900660 C2 19830818

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DOCDB simple family (application)

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