

Title (en)

APPARATUS FOR ELECTROSTATICALLY COATING ARTICLES WITH A POWDERY COATING MATERIAL

Publication

**EP 0199054 B1 19881214 (DE)**

Application

**EP 86103297 A 19860312**

Priority

DE 3514523 A 19850422

Abstract (en)

[origin: ES8704358A1] A spraying gun for electrostatic spraying of coating material on an article contains a discharge electrode which is disposed entirely outside the region where the coating material flows. The coating material is accelerated through an annularly shaped and axially extending channel in which the coating material is electrically charged by friction between itself and the insulated walls that define the channel. A gas conduit extends from the discharge electrode and reaches into the annular feed channel of the coating material. Location of the gas conduit between the discharge electrode and the feed channel allows the gas flowing in the gas conduit toward the feed channel to serve the dual purposes of preventing coating material from flowing to and settling on the discharge electrode and providing an electrically conductive path through which undesired electrical charges which develop on the walls of the feed channel discharge to the discharge electrode.

IPC 1-7

**B05D 1/06**; **B05B 5/02**

IPC 8 full level

**B05B 5/025** (2006.01); **B05B 5/03** (2006.01); **B05B 5/047** (2006.01); **B05D 1/06** (2006.01)

CPC (source: EP US)

**B05B 5/032** (2013.01 - EP US); **B05B 5/047** (2013.01 - EP US); **B05D 1/06** (2013.01 - EP US)

Cited by

EP0572358A1; US5397605A; EP0592137A1; CN1051033C; EP1254720A3; EP1254720A2; FR2820344A1; US6959884B2; WO8808332A1; WO8808336A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0199054 A1 19861029**; **EP 0199054 B1 19881214**; DE 3514523 A1 19861023; DE 3514523 C2 19880310; DE 3661401 D1 19890119; ES 554190 A0 19870401; ES 8704358 A1 19870401; JP H0410384 B2 19920225; JP S61283369 A 19861213; US 4706890 A 19871117

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