

Title (en)
ELECTROSTATIC SPRAY DEVICE FOR COATING POWDER

Publication
EP 0236795 B1 19900808 (DE)

Application
EP 87102179 A 19870216

Priority
DE 3608415 A 19860313

Abstract (en)
[origin: US4802625A] An electrostatic spray device for coating powder has a powder channel, the downstream end of which has a spray opening for the spraying of the coating powder. At least one gas channel with at least one gas outlet opening is arranged substantially in the radial center of the powder channel upstream of its spray opening, the gas outlet discharging axially in the direction toward the spray opening. At least one electrode, around which gas from the gas channel flows, is located in the gas outlet opening, the downstream electrode end of the electrode terminating substantially at the downstream end thereof. Within the powder channel, directly in front of its spray opening, a funnel-shaped powder channel section is provided for compacting the powder concentration. The gas stream injects electric charges into this section, which the stream of gas has taken up from the electrode. The spray opening preferably has the shape of a slot.

IPC 1-7
B05B 5/03

IPC 8 full level
B05B 5/025 (2006.01); **B05B 5/03** (2006.01)

CPC (source: EP US)
B05B 5/032 (2013.01 - EP US)

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