

Title (en)

Electrostatic spray device for coating powder.

Title (de)

Elektrostatische Sprüheinrichtung für Beschichtungspulver.

Title (fr)

Appareil de pulvérisation électrostatique pour poudre de revêtement.

Publication

EP 0236795 A2 19870916 (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.

Abstract (de)

Im Pulverkanal (14) ist unmittelbar vor dessen Sprühöffnung (18) ein Pulverkanalabschnitt zur Verdichtung der Pulverkonzentration vorgesehen, in welchen mindestens ein Gasstrom elektrische Ladungen injiziert, die der Gasstrom von einer Elektrode (26) aufgenommen hat, die in einer Gasauslaßöffnung (32) im wesentlichen im radialen Zentrum des Pulverkanals (14) angeordnet ist.

IPC 1-7

B05B 5/02

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)

Designated contracting state (EPC)

AT CH ES FR GB IT LI

DOCDB simple family (publication)

EP 0236795 A2 19870916; EP 0236795 A3 19880914; EP 0236795 B1 19900808; AT E55283 T1 19900815; DE 3608415 A1 19870924; DE 3608415 C2 19890119; ES 2016577 B3 19901116; JP H0525552 B2 19930413; JP S62269766 A 19871124; US 4802625 A 19890207

DOCDB simple family (application)

EP 87102179 A 19870216; AT 87102179 T 19870216; DE 3608415 A 19860313; ES 87102179 T 19870216; JP 4863087 A 19870303; US 2273987 A 19870306