

Title (en)

Device for feeding a powder coating apparatus with a mixture of air and powder.

Title (de)

Einrichtung zum Speisen von Pulverbeschichtungsgeräten mit einem Pulver-Luft-Gemisch.

Title (fr)

Dispositif d'alimentation d'un appareil de revêtement avec un mélange air-poudre.

Publication

**EP 0525303 B1 19950628 (DE)**

Application

**EP 92106291 A 19920410**

Priority

DE 4121455 A 19910628

Abstract (en)

[origin: JPH05192630A] PURPOSE: To greatly improve conveying uniformity and dosing accuracy and to supply a powder-air mixture to a powder coating device by providing a dosing container with a cyclone-like air separator, a fluidizing means, a dosing means and a means for conveying a powder mixture to the powder coating device. CONSTITUTION: This apparatus for supplying a powder-air mixture to a powder coating device fluidizes powder in a powder tank and conveys the resulted powder-air mixture to the powder coating device through an intervening container likewise having the fluidizing means 11. The intervening device is formed as the dosing container 3 arranged adjacently to the powder coating device. The dosing container 3 has the cyclone-like air separator 10, the fluidizing means 11 and the dosing means 12 for producing the dosed powder-air mixture. The dosing container 3 is constituted to have the means 13 for conveying the powder-air mixture to the powder coating device.

IPC 1-7

**B05B 7/14**; **B05B 5/16**

IPC 8 full level

**B04C 9/00** (2006.01); **B05B 5/16** (2006.01); **B05B 7/14** (2006.01); **B05C 19/06** (2006.01)

CPC (source: EP US)

**B05B 7/1404** (2013.01 - EP US)

Cited by

NO345733B1; DE19613967A1; US7347649B2

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

**DE 4121455 A1 19930114**; **DE 4121455 C2 19941027**; DE 59202680 D1 19950803; EP 0525303 A1 19930203; EP 0525303 B1 19950628; EP 0525303 B2 20010808; JP H05192630 A 19930803; JP H0817997 B2 19960228; US 5294217 A 19940315

DOCDB simple family (application)

**DE 4121455 A 19910628**; DE 59202680 T 19920410; EP 92106291 A 19920410; JP 16912592 A 19920626; US 89708692 A 19920611