Title (en)

Electrostatic rotary atomizing liquid spray coating apparatus.

Title (de)

Rotierende Vorrichtung für die Beschichtung durch elektrostatische Zerstäubung einer Flüssigkeit.

Title (fr)

Appareil rotatif de revêtement par pulvérisation électrostatique d'un liquide.

Publication

EP 0243043 A2 19871028 (EN)

Application

EP 87303098 A 19870409

Priority

- US 1445087 A 19870213
- US 85374686 A 19860418

Abstract (en)

An electrostatic liquid spray coating apparatus including a rotary cup (20) driven by an air turbine (31) is provided with a ring-shaped electrode (46) embedded in the inner surface of the cup. A support body (10), housing a turbine (31), has a reduced diameter intermediate section (16) in which are located liquid coating-and solvent valves. The support body (10) is mounted to a rear bracket by insulative columns (62, 64, 66) one of which accomodates a high voltage cable (74) connected to a stationary conductor which terminates in proximity to a semi-conductive ring (102) connected to the electrode (46) by pins (104). A dump valve (80) is mounted on the bracket. In an alternate embodiment the support body has a cap (400) in which the rotary cup (20) is recessed. A ring of jets (28) for projecting and shaping air flow and a repulsion ring (470) surrounds the cup (20).

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IPC 8 full level

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

CPC (source: EP)

B05B 5/0407 (2013.01); B05B 5/0426 (2013.01)

Cited by

EP0379373A1; CN103068491A; EP1134026A3; GB2328629A; US5941457A; GB2328629B; CN1082395C; US9901941B2

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