

Title (en)

Triboelectric spray gun, installation for spraying coating products and method for controlling such a gun

Title (de)

Triboelektrische Sprühpistolen-Anlage zum Sprühen von Beschichtungsmaterialien und Verfahren zur Steuerung einer solchen Pistole

Title (fr)

Projecteur triboélectrique, installation de projection de produit de revêtement et procédé de commande d'un tel projecteur

Publication

**EP 0818245 B1 20011128 (FR)**

Application

**EP 97420104 A 19970702**

Priority

FR 9608894 A 19960710

Abstract (en)

[origin: EP0818245A1] Air (3), carrying powder particles picked up by venturi action from an air-agitated reservoir, is diluted and/or accelerated on entry (21) by air injected via a central nozzle (25a), directed downstream. The stream then enters the annular passage (12) between concentric inner (14) and outer (13) tubes of insulating material. The former, plugged by conical entry (14b) and exit (14c) fairings, is supported by perforated spacer rings (19, 20). The tribo-electric charge, proportional to the injected control air-flow (25) is measured by the current collected by a conducting carbon-fibre tube (26) close-fitting over the outer insulated tube (13) and passed to earth (27, 28) via an external control unit, automatically adjusting the injected air-flow. The charged air-stream is finally projected through the end nozzle (18).

IPC 1-7

**B05B 5/047**; **B05B 12/08**

IPC 8 full level

**B05B 5/047** (2006.01); **B05B 12/08** (2006.01)

CPC (source: EP US)

**B05B 5/047** (2013.01 - EP US); **B05B 12/08** (2013.01 - EP US)

Cited by

CN102671794A; FR3004767A1; US9636695B2; WO2014170374A1; WO9930830A1; FR2820344A1; US6959884B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL PT SE

DOCDB simple family (publication)

**EP 0818245 A1 19980114**; **EP 0818245 B1 20011128**; AT E209530 T1 20011215; DE 69708528 D1 20020110; FR 2750897 A1 19980116; FR 2750897 B1 19980918; US 5924631 A 19990720

DOCDB simple family (application)

**EP 97420104 A 19970702**; AT 97420104 T 19970702; DE 69708528 T 19970702; FR 9608894 A 19960710; US 88967697 A 19970708