

Title (en)  
COATING APPARATUS

Publication  
**EP 0092419 A3 19840425 (EN)**

Application  
**EP 83302193 A 19830419**

Priority  
GB 8211387 A 19820420

Abstract (en)  
[origin: EP0092419A2] Electrostatic or electrogasdynamic coating apparatus includes a coating gun, e.g. for use with dry powder, whose structure defines a through passage leading from an inlet tube (10) operatively connected to a source of particulate coating material to a discharge barrel (12). A central needle cathode electrode (15) is mounted in a constricted region of the passage, its tip being adjacent an annular porous metal anode electrode (25) whose central opening defines part of the passage. A flow of the material is induced along the passage by a first pressurized gas (e.g. air) stream fed from a first supply formation (24) to enter the passage in the region of the electrodes, in which region the particles receive an electric charge from the latter. At the same time a second pressurized gas stream, which is controlled independently of the first stream, is fed from a second supply formation (24) through the porous electrode itself to prevent build-up of particles on the acting portion thereof.

IPC 1-7  
**B05B 5/02**; **B05B 7/14**

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

CPC (source: EP)  
**B05B 5/032** (2013.01)

Citation (search report)  
• DE 2852038 A1 19790607 - NAKAYA KOGYO KK  
• US 4368852 A 19830118 - SHARP WILLIAM J, et al  
• DE 1289467 B 19690213 - DEVILBISS CO  
• GB 1449998 A 19760915 - ENERGY INNOVATIONS  
• GB 1498486 A 19780118 - AIR IND

Cited by  
EP0204437A3; DE102004055106A1; JP2003514736A; EP1230030A4; WO0160527A1

Designated contracting state (EPC)  
AT BE CH DE FR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0092419 A2 19831026**; **EP 0092419 A3 19840425**; GB 2118865 A 19831109; GB 2118865 B 19850925

DOCDB simple family (application)  
**EP 83302193 A 19830419**; GB 8211387 A 19820420