

Title (en)
Electrostatic powder coating gun.

Title (de)
Elektrostatistische Pulver-Beschichtungspistole.

Title (fr)
Pistolet électrostatique de revêtement de poudre.

Publication
EP 0547397 B1 19950621 (DE)

Application
EP 92119738 A 19921119

Priority
DE 4141663 A 19911217

Abstract (en)
[origin: EP0547397A1] An electrostatic powder coating gun is provided which consists of a powder duct which is connected to an infeed line (19) for a powder-air mixture and is open in the direction of the gun barrel longitudinal axis towards the workpiece to be coated, a high-voltage generator (14), an electrode support tube (13) penetrating the powder duct axially and a high-voltage electrode seated on the support tube which projects beyond the powder duct mouth in the direction towards the workpiece. In this arrangement, the high-voltage generator (14) and the powder duct (18) are arranged behind one another in the longitudinal axis of the powder tube in such a way that the powder duct is adjacent to the mouth of the gun barrel. In this arrangement, the powder duct consists of a toroidal channel (17) and an annular channel (18) branching off therefrom and opening outwards. <IMAGE>

IPC 1-7
B05B 5/03; **B05B 5/053**

IPC 8 full level
B05B 5/025 (2006.01); **B05B 5/03** (2006.01); **B05B 5/053** (2006.01)

CPC (source: EP US)
B05B 5/032 (2013.01 - EP US); **B05B 5/0531** (2013.01 - EP US)

Citation (examination)
US 5056720 A 19911015 - CRUM GERALD W [US], et al

Cited by
EP0697255A3; DE102023114613A1; WO2023232199A2

Designated contracting state (EPC)
CH DE DK ES FR IT LI NL

DOCDB simple family (publication)
EP 0547397 A1 19930623; **EP 0547397 B1 19950621**; CZ 281696 B6 19961211; CZ 369892 A3 19930714; DE 4141663 A1 19930624; DE 4141663 C2 19960919; DE 59202614 D1 19950727; DK 0547397 T3 19950821; ES 2073845 T3 19950816; HU 215134 B 19980928; HU 9203924 D0 19930329; HU T64490 A 19940128; JP H05245416 A 19930924; PL 170193 B1 19961129; PL 297008 A1 19930920; US 5482214 A 19960109

DOCDB simple family (application)
EP 92119738 A 19921119; CS 369892 A 19921216; DE 4141663 A 19911217; DE 59202614 T 19921119; DK 92119738 T 19921119; ES 92119738 T 19921119; HU 392492 A 19921211; HU 9203924 A 19921211; JP 33743592 A 19921217; PL 29700892 A 19921214; US 99150492 A 19921217