

Title (en)

METHOD AND APPARATUS FOR INDUCTIVELY CHARGING CENTRIFUGALLY ATOMIZED CONDUCTIVE COATING MATERIAL

Publication

EP 0120648 A3 19851016 (EN)

Application

EP 84301729 A 19840314

Priority

US 47859583 A 19830324

Abstract (en)

[origin: EP0120648A2] Electrostatic spray coating method and apparatus, for spraying conductive coating material, utilizing nonconductive rotating cup-shaped atomizer and a charge-inducing electrode proximate the periphery of the rotating cup whereat atomization occurs. The electrode, which is charged to one polarity from an electrostatic source, induces opposite polarity charge on the atomized particles. The charged particles are then attracted toward an object to be coated which is maintained at a potential sufficiently different to attract the charged particles to facilitate deposition of the coating on the object. The conductive coating can be either inherently conductive material, e.g. water-based paint, or nonconductive material, such as, solvent-based paint, which has been doped to render it conductive.

IPC 1-7

B05B 5/04; **B05B 5/02**; **B05B 3/10**

IPC 8 full level

B05B 5/04 (2006.01); **B05B 5/043** (2006.01); **B05D 1/04** (2006.01); **B05B 7/08** (2006.01)

CPC (source: EP)

B05B 5/0407 (2013.01); **B05B 5/043** (2013.01); **B05B 5/0426** (2013.01)

Citation (search report)

- [X] US 4215818 A 19800805 - HOPKINSON PETER R [GB]
- [A] US 3900000 A 19750819 - GALLEN THOMAS J
- [A] FR 2370519 A1 19780609 - HAJTOMUEVEK ES FESTOBERENDEZE [HU]
- [A] US 4337895 A 19820706 - GALLEN THOMAS
- [A] GB 1154014 A 19690604 - MUELLER ERNST KG [DE]
- [A] EP 0029302 B1 19841205
- [A] GB 2093734 A 19820908 - NAT RES DEV

Cited by

EP1384515A1; EP0157872A4; EP0186342A1; DE102014019309A1; US4887770A; CN107638969A; DE102006057596A1; DE3709508A1; EP0186983A1; GB2190606A; GB2190606B; DE102005015604A1; DE102005015604B4; RU2483254C1; DE19611369A1; US5100057A; EP0796663A3; DE102005044154A1; DE102005044154B4; EP0519191A1; EP0576329A1; FR2692501A1; US5358182A; EP1134026A3; US8840050B2; US10265712B2; US8430340B2; US8827181B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0120648 A2 19841003; **EP 0120648 A3 19851016**; JP S59225762 A 19841218

DOCDB simple family (application)

EP 84301729 A 19840314; JP 5458484 A 19840323