

Title (en)

Method and apparatus for inductively charging centrifugally atomized conductive coating material.

Title (de)

Verfahren und Einrichtung zum induktiven Laden von zentrifugal zerstäubtem Beschichtungsmaterial.

Title (fr)

Appareil et procédé pour charger par induction un matériau de revêtement conducteur atomisé par la force centrifuge.

Publication

EP 0120648 A2 19841003 (EN)

Application

EP 84301729 A 19840314

Priority

US 47859583 A 19830324

Abstract (en)

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.

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CPC (source: EP)

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Cited by

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

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