

Title (en)
ELECTROSTATIC SPRAY NOZZLE SYSTEM

Title (de)
ELEKTROSTATISCHES SPRÜHDÜSENSYSTEM

Title (fr)
SYSTEME DE BUSE DE PULVERISATION ELECTROSTATIQUE

Publication
EP 1817112 A2 20070815 (EN)

Application
EP 05823418 A 20051112

Priority

- US 2005040956 W 20051112
- US 62748004 P 20041112
- US 62719104 P 20041112
- US 27227405 A 20051110
- US 27125705 A 20051110

Abstract (en)
[origin: WO2006053229A2] An electrostatic spray nozzle assembly designed for optimum charge level over a wide range of liquid and air flow rates. The electrostatic spray nozzle assembly includes an adjustment mechanism operable to move a fluid tip assembly within a bore of a nozzle body so as to adjust a longitudinal distance between a liquid outlet of the fluid tip assembly and an outlet of a nozzle cap. The electrostatic spray nozzle assembly is mounted to a panel made of insulating material. The panel is adapted to accumulate an electrostatic charge having a same polarity as that of the coating composition dispensed during a spray operation. Further deposition of spray droplets onto the panel is prevented by electrostatic repulsion forces due to the accumulation of sufficient charge onto the surface of the panel from an initial deposit of a small volume of spray.

IPC 8 full level
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