

Title (en)

Spray coating apparatus and method.

Title (de)

Vorrichtung zur Sprühbeschichtung und Methode.

Title (fr)

Appareil de revêtement par pulvérisation et méthode.

Publication

EP 0092365 A2 19831026 (EN)

Application

EP 83302048 A 19830412

Priority

US 36785582 A 19820413

Abstract (en)

A spray coating system including a gun from which electrostatically charged liquid coating material, atomized with the aid of a first air stream and shaped in a desired fan pattern with a second air stream, is emitted to coat an object spaced therefrom. Separate signal-controlled valves are provided to independently control the liquid coating flow rate, atomization air stream flow rate, and fan-shaping air stream flow rate. Signalcontrolled electrostatic voltage regulating means are provided to control the magnitude of the electrostatic voltage used to electrostatically charge the liquid coating particles. An electronic controller having means for entering the identity of a particular article to be coated and a <<look-up>> table memory correlating part identity with the requisite voltage level and flow rates for the coating material, atomizing air stream, and fan-shaping air stream for various articles automatically controls the electrostatic voltage source and the various valves to provide the necessary voltage and flow rates previously empirically determined and stored in the controller memory.

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Cited by

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