

Title (en)

Method of operating an electrostatic and pneumatic paint spray gun.

Title (de)

Verfahren zum Betreiben einer elektrostatischen Druckluft-Farbspritzpistole.

Title (fr)

Procédé de mise en oeuvre d'un pistolet électrostatique et pneumatique pour la pulvérisation de peintures.

Publication

EP 0442019 B1 19940209 (DE)

Application

EP 90103066 A 19900216

Priority

EP 90103066 A 19900216

Abstract (en)

[origin: US5188290A] In an electrostatic compressed air paint spray gun, the overall exit area of the compressed air discharge opening as well as the pressure and the quantity of the supplied compressed air are dimensioned such and matched such to one another that, first, the ratio (VL) of the air pressure (P1) prevailing immediately upstream of the compressed air discharge opening to the air pressure (P2) prevailing downstream of the compressed air discharge opening is less than 2:1 and, second, quantity and flow rate of the compressed air emerging from the compressed air discharge opening and magnitude of the applied high-voltage guarantee an adequate atomization of the paint as well as a conveying of the atomized paint particles to the workpiece with a given paint throughput and given paint viscosity. A high precipitation efficiency and a good paint compass are thus achieved.

IPC 1-7

B05B 5/03

IPC 8 full level

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CPC (source: EP US)

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