

Title (en)  
ELECTROSTATIC SPRAY NOZZLE

Publication  
**EP 0107499 A3 19850918 (EN)**

Application  
**EP 83306444 A 19831024**

Priority  
• JP 16218882 U 19821026  
• JP 17145082 U 19821112

Abstract (en)  
[origin: EP0107499A2] An electrostatic spray nozzle including: a paint nozzle having a labial paint spout hole for spurting a paint under predetermined liquid pressure; an air nozzle having an air blow hole forwardly of the paint spout hole for blowing air streams toward the spurted paint to accelerate atomization of the paint; and a needle electrode located forward of the air spout hole and applied with a high voltage to charge the atomized particles of the paint to a predetermined potential. Atomization of the paint which is spurted from the paint spout hole is accelerated by pressurized air streams from the air spout hole, while preventing the tailing phenomenon. The atomized paint particles are charged by passage through an ionizing zone which is formed around the needle electrode, thereby promoting the efficiency of paint deposition and at the same time the efficiency of paint atomization by the electrostatic atomizing action.

IPC 1-7  
**B05B 5/02**

IPC 8 full level  
**B05B 5/03** (2006.01)

CPC (source: EP)  
**B05B 5/03** (2013.01)

Citation (search report)  
• [Y] US 3521824 A 19700728 - WILCOX RICHARD L  
• [Y] FR 2350887 A1 19771209 - AIR IND [FR]  
• [A] FR 1554228 A 19690117  
• [A] US 3843052 A 19741022 - COWAN P  
• [A] US 4236674 A 19801202 - DIXON GEORGE  
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Cited by  
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Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0107499 A2 19840502; EP 0107499 A3 19850918; DE 107499 T1 19841206**

DOCDB simple family (application)  
**EP 83306444 A 19831024; DE 83306444 T 19831024**