

Title (en)

PROCESS AND DEVICE FOR THE LARGE AREA DISPENSING AND SPREADING OF ELECTRICALLY CONDUCTING LIQUIDS

Publication

EP 0134951 B1 19870304 (DE)

Application

EP 84107625 A 19840702

Priority

DE 3325070 A 19830712

Abstract (en)

[origin: EP0134951A1] 1. Process for the large-area application and distribution of electrically conductive liquids having a specific resistance of $< 10^{-4}$ OMEGA . m, in which a high voltage is applied to the liquid, characterised in that the liquid is allowed to issue from a nozzle or capillary at such a low rate of flow that, immediately downstream of the nozzle or capillary, it forms a cohesive filament of liquid which then disintegrates into individual drops and in that, by means of the high voltage relative to earth which is applied to the filament of liquid, the drop size is stabilised and a conical distribution of drops (cone of drops) is produced whose apex angle depends on the level of the voltage.

IPC 1-7

B05B 5/02; **B05D 1/04**; **A01M 7/00**

IPC 8 full level

A01G 7/06 (2006.01); **A01G 13/00** (2006.01); **A01M 7/00** (2006.01); **B05B 5/025** (2006.01); **B05D 1/04** (2006.01)

CPC (source: EP KR)

B05B 5/0255 (2013.01 - EP); **B05D 1/00** (2013.01 - KR); **B05D 1/04** (2013.01 - EP)

Cited by

EP0258016A1; EP0523964A1; EP0523962A1; EP0523963A1; EP0523960A1; US5494674A; EP0523961A1; US5268166A; WO9411119A1

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EP 0134951 A1 19850327; **EP 0134951 B1 19870304**; AT E25597 T1 19870315; AU 2950584 A 19850613; BR 8403451 A 19850625; CA 1224982 A 19870804; DD 225350 A5 19850731; DE 3325070 A1 19850124; DE 3462440 D1 19870409; DK 340384 A 19850113; DK 340384 D0 19840711; ES 534231 A0 19850416; ES 8504494 A1 19850416; HU 190315 B 19860828; HU T35556 A 19850729; IE 55390 B1 19900829; IE 841785 L 19850112; IL 72346 A0 19841130; JP S6041419 A 19850305; KR 850001031 A 19850314; NZ 208830 A 19880229; PT 78829 A 19840801; PT 78829 B 19860715; ZA 845344 B 19850327

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