

Title (en)
SPRAYHEAD FOR ELECTROSTATIC SPRAYING

Publication
EP 0123538 A3 19851106 (EN)

Application
EP 84302710 A 19840419

Priority
GB 8311100 A 19830423

Abstract (en)
[origin: EP0123538A2] A sprayhead for electrostatic spraying comprises an outer, non-conductive frusto-conical member (2) having channels (17) in its interior surface. An inner member (1) having two frusto-conical outer surface portions (7, 8) separated by step is fitted within said outer member (2) with one of the surface portions (7) engaging the interior surface of the outer member (2). In use, fluid flows through a flow pipe (10) to the channels through a groove (12) in the end of a stem of a metal screw (11) which secures the inner member (1) in position, the stem end being screw-threadedly engaged in the pipe (10). The pipe (10) is electrically charged and this charge is conducted therefrom through the screw to the metal inner member (1). Thus as fluid flows in the channels (17) in contact with surface portion (7) it is charged so that electrostatically charged spray droplets are produced at an edge (3) of the non-conducting outer member (2).

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B05B 5/02; **A01M 7/00**

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A01M 7/00 (2006.01); **B05B 5/025** (2006.01); **B05B 15/00** (2018.01)

CPC (source: EP US)
B05B 5/0255 (2013.01 - EP US); **B05B 15/00** (2013.01 - EP US)

Citation (search report)

- [A] EP 0031649 B1 19840926
- [A] DE 2541927 A1 19760429 - RANSBURG JAPAN LTD
- [A] US 3630236 A 19711228 - DIGGS RICHARD E
- [A] DE 1577626 A1 19690925 - ASHDEE CORP
- [A] US 2069150 A 19370126 - HOLDER LEONARD H
- [A] US 3462685 A 19690819 - HORNAK TOMAS
- [A] GB 1243634 A 19710825 - VOLSTATIC LTD [GB]

Cited by
EP0186983A1; EP0243031A1; AU596167B2; US7845307B2; WO2005095001A1

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