

Title (en)

Device and method for electrostatically spraying liquids

Title (de)

Vorrichtung und Verfahren zur elektrostatischen Zerstäubung eines flüssigen Mediums

Title (fr)

Dispositif et procédé de pulvérisation électrostatique de liquides

Publication

EP 1195203 B1 20081126 (DE)

Application

EP 01123634 A 20011002

Priority

DE 10049204 A 20001005

Abstract (en)

[origin: EP1195203A2] The vaporizer has an electrically conductive jet body (1) having an internal volume (4) for reception of the fluid medium and at least one jet opening (2), cooperating with a HV electrode (3) positioned coaxial to the longitudinal axis of the jet body within the internal volume. The HV electrode has a sharp edge (3a) at its widest part, positioned adjacent the jet opening, for electrostatic charging of the fluid flowing through the latter. An Independent claim for a vaporization method for a fluid medium is also included.

IPC 8 full level

B05B 5/025 (2006.01); **B05B 5/035** (2006.01); **B05B 5/053** (2006.01); **F23D 11/32** (2006.01); **F02M 27/04** (2006.01)

CPC (source: EP US)

B05B 5/035 (2013.01 - EP US); **B05B 5/0533** (2013.01 - EP US); **F23D 11/32** (2013.01 - EP US); **F02M 27/04** (2013.01 - EP US); **F23D 2206/10** (2013.01 - EP US)

Cited by

DE102020007299A1; WO2022111886A1; DE102020007299B4

Designated contracting state (EPC)

DE GB

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EP 1195203 A2 20020410; **EP 1195203 A3 20041110**; **EP 1195203 B1 20081126**; DE 10049204 A1 20020411; DE 50114517 D1 20090108; US 2002063176 A1 20020530; US 2004075003 A1 20040422

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EP 01123634 A 20011002; DE 10049204 A 20001005; DE 50114517 T 20011002; US 70587903 A 20031113; US 97077601 A 20011005