Title (en)

LIQUID ATOMIZER COMPRISING A PIEZOELECTRIC ELEMENT AND IRON COMPRISING SUCH AN ATOMIZER

Title (de)

FLÜSSIGKEITSZERSTÄUBER MIT EINEM PIEZOELEKTRISCHEN ELEMENT UND EISEN MIT SOLCH EINEM ZERSTÄUBER

Title (fr)

ATOMISEUR DE LIQUIDE COMPORTANT UN ELEMENT PIEZOELECTRIQUE ET FER A REPASSER COMPORTANT UN TEL ATOMISEUR

Publication

EP 3350367 B1 20190612 (FR)

Application

EP 16777721 A 20160913

Priority

- FR 1558571 A 20150914
- FR 2016052296 W 20160913

Abstract (en)

[origin: WO2017046500A1] Liquid atomizer (6) comprising a piezoelectric element (8) fixed on a vibrational-displacement amplifying horn (9) comprising a cavity (90) containing the liquid that is to be atomized, the said horn (9) comprising a first part (92) receiving the piezoelectric element (8) and a second part (93), distinct from the first part (92), coupled mechanically and acoustically to a microperforated membrane (91) that closes off one side of the said cavity (90), characterized in that the said cavity (90) is supplied with liquid coming from a reservoir (5) by means of a pump (51) having a throughput greater than the spray throughput of the atomizer (6) in operation, and in that the said horn (9) comprises at least one outlet hole (94) connecting the cavity (90) to a bypass pipe (66) leading towards the reservoir (5).

IPC 8 full level

D06F 75/22 (2006.01); **B05B 17/00** (2006.01); **B05B 17/06** (2006.01)

CPC (source: EP)

B05B 15/58 (2018.01); **B05B 17/063** (2013.01); **B05B 17/0646** (2013.01); **B05B 17/0676** (2013.01); B05B 17/0653 (2013.01); B05B 17/0669 (2013.01)

Citation (examination)

- JP H0747197 A 19950221 - MATSUSHITA ELECTRIC IND CO LTD
- KR 20100107330 A 20101005 - EGLAS CO LTD [KR], et al
- WO 2016150822 A1 20160929 - VALEO SYSTEMES THERMIQUES [FR]
- WO 2017012861 A1 20170126 - VALEO SYSTEMES THERMIQUES [FR]
- WO 2017016824 A1 20170202 - VALEO SYSTEMES THERMIQUES [FR]

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DOCDB simple family (publication)

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DOCDB simple family (application)

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