

Title (en)

Spraying apparatus and method for generating a liquid-gas mixture

Title (de)

Zerstäubungseinrichtung und Verfahren zur Erzeugung eines Flüssigkeit-Gas Gemisches

Title (fr)

Appareil de pulvérisation et procédé pour créer un mélange liquide-gaz

Publication

EP 1380348 A3 20041229 (DE)

Application

EP 03405488 A 20030702

Priority

DE 10231218 A 20020711

Abstract (en)

[origin: EP1380348A2] Atomizing device for producing a liquid/gas mixture (4) comprises a nozzle body (20) having an at least approximately central pipe (16) for the gaseous medium and a nozzle chamber (18) for the liquid medium which rotationally-symmetrically surrounds the tube. A liquid feed (17) has devices for producing a swirled liquid flow into the nozzle chamber. The liquid leaves the nozzle body through a nozzle opening (19) coaxially surrounding the pipe. An Independent claim is also included for the production of a liquid/gas mixture using an atomizing device. Preferred Features: The liquid feed opens tangentially into the nozzle chamber. The nozzle chamber narrows to an annular nozzle opening.

IPC 1-7

B05B 7/04

IPC 8 full level

B05B 7/06 (2006.01); **B05B 7/10** (2006.01); **F04F 5/04** (2006.01); **F04F 5/08** (2006.01); **F04F 5/42** (2006.01)

CPC (source: EP US)

B05B 7/065 (2013.01 - EP US); **B05B 7/10** (2013.01 - EP US); **F04F 5/04** (2013.01 - EP US); **F04F 5/08** (2013.01 - EP US); **F04F 5/42** (2013.01 - EP US)

Citation (search report)

- [X] US 3980233 A 19760914 - SIMMONS HAROLD C, et al
- [X] US 4179068 A 19791218 - DOMBROWSKI NORMAN [GB]
- [X] DE 2753788 A1 19780608 - MITSUBISHI PRECISION CO LTD
- [A] FR 904557 A 19451109 - ROBINETTERIE S A J SOC D

Cited by

EP2128452A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1380348 A2 20040114; **EP 1380348 A3 20041229**; **EP 1380348 B1 20090826**; AT E440671 T1 20090915; DE 10231218 A1 20040129; DE 50311841 D1 20091008; US 2004060996 A1 20040401; US 6986473 B2 20060117

DOCDB simple family (application)

EP 03405488 A 20030702; AT 03405488 T 20030702; DE 10231218 A 20020711; DE 50311841 T 20030702; US 61629503 A 20030710