

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 B1 20090826 (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 8 full level

B05B 7/04 (2006.01); **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)

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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

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