

Title (en)

METHOD FOR PRODUCING A GAS-DROPLET JET STREAM, EQUIPMENT AND NOZZLE THEREFOR

Title (de)

VERFAHREN ZUR ERZEUGUNG EINES STRAHLES VON GAS UND TRÖPFCHEN, AUSRÜSTUNG UND DÜSE ZUR DURCHFÜHRUNG DIESER VERFAHRENS

Title (fr)

PROCEDE DE FORMATION DE JET DE TYPE GAZ-GOUTTELETTES, INSTALLATION ET BUSE

Publication

EP 0911082 B1 20011205 (DE)

Application

EP 97932056 A 19970707

Priority

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- RU 96113451 A 19960708

Abstract (en)

[origin: EP0911082A1] A procedure for generating a gas/droplet flow consists of accelerating a gas flow in a gas-dynamic nozzle and while it is accelerating adding a dispersed liquid flow. The resulting two-phase flow is then accelerated in the nozzle, the pressure (P) at the input end of which and the relative concentration (g) of liquid in the two-phase flow are determined by set relationships, where $P \times g$ is not more than 0.57 GPa; P is at least 0.5 MPa, and $g = G_l/G_g$ where G_l is the mass flow of liquid and G_g is the mass flow of gas. The gas flow for the procedure is created by at least one turbo-compressor feeding a gas-dynamic nozzle with a mixing chamber for the liquid (water) and gas, and a shaped nozzle channel (7) with its length at least five times its critical cross-section.

IPC 1-7

B05B 7/04; **A01G 25/00**; **A62C 31/02**

IPC 8 full level

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CPC (source: EP)

A62C 3/0207 (2013.01); **A62C 31/02** (2013.01); **B05B 7/0433** (2013.01); **B05B 7/045** (2013.01)

Cited by

US9931648B2; US10507480B2; WO0176764A1; WO2011099900A1; WO2016094079A1

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