

Title (en)  
DROPLET MIST GENERATOR

Title (de)  
TRÖPFCHENWOLKENERZEUGER

Title (fr)  
GENERATEUR DE NUAGE DE GOUTTELETTES

Publication  
**EP 0907421 A1 19990414 (DE)**

Application  
**EP 97930351 A 19970624**

Priority  
• DE 9701307 W 19970624  
• DE 19626428 A 19960701

Abstract (en)  
[origin: DE19626428A1] In a pump chamber (1) connected to a liquid supply, an overhanging piezoelectric flexural transducer (4) is disposed so that when voltage pulses are applied to produce an excursion, a number of droplets can be expelled from a nozzle array (3) in the housing wall (2c) of the pump chamber (1) using a plurality of nozzles (32). Gaps (5b) are formed between the edges lateral to the direction of overhang and the free end (4d) of the piezoelectric flexural transducer (4) and adjacent sections of the housing wall. The nozzle array (3) can be disposed in the projection of the plate surface of the piezoelectric flexural transducer (4) in its direction of motion or in the extension of the piezoelectric flexural element (4) or in another suitable position. As part of a combustion device the droplet mist generator is excellent for producing a combustible fuel-oxidant mixture.

IPC 1-7  
**B05B 17/06; F23D 11/34; B41J 2/14**

IPC 8 full level  
**B01F 3/04** (2006.01); **B05B 1/08** (2006.01); **B05B 17/06** (2006.01); **B41J 2/14** (2006.01); **F04B 43/04** (2006.01); **F23D 11/34** (2006.01); **H02N 2/00** (2006.01); **H02N 2/02** (2006.01)

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Citation (search report)  
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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**DE 19626428 A1 19980115**; CA 2259311 A1 19980108; DE 59706503 D1 20020404; EP 0907421 A1 19990414; EP 0907421 B1 20020227; US 6116517 A 20000912; WO 9800237 A1 19980108

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