

Title (en)
FLUIDIC OSCILLATOR COMPRISING THREE POWER INLET NOZZLES AND AN OBSTRUCTION CREATING VORTICES

Title (de)
FLUIDOSZILLATOR MIT DREI KRAFTEINLASSDÜSEN UND EINEM WIRBEL ERZEUGENDEN HINDERNIS

Title (fr)
OSCILLATEUR FLUIDIQUE COMPRENANT TROIS INJECTEURS ET UN ILOT

Publication
EP 1675686 B1 20071212 (EN)

Application
EP 04796157 A 20041019

Priority
• US 2004035108 W 20041019
• US 51306803 P 20031021

Abstract (en)
[origin: WO2005042169A1] A fluidic oscillator (2) suitable for use at colder temperatures for utilizing a pressurized liquid to generate a uniform spatial distribution of droplets has (a) an inlet (28) for the pressurized liquid, (b) a set of three power nozzles (24) that are fed by the pressurized liquid, (c) an interaction chamber (26) attached to the nozzles and which receives the flow from the nozzles, wherein this chamber has an upstream (26a) and a downstream (26b) portion, with the upstream portion having a pair of boundary edges (26c, 26d) and a longitudinal centerline (26e) that is approximately equally spaced between the edges, and wherein one of the power nozzles (24) is directed along the chamber's longitudinal centerline (26e), (d) a throat (30) from which the liquid exhausts from the interaction chamber (26), and (e) an island (24) located in the interaction chamber, with this island being situated downstream of the power nozzle (24) that is directed along the chamber's longitudinal centerline (26e).

IPC 8 full level
B05B 1/08 (2006.01); **F15C 1/22** (2006.01)

CPC (source: EP)
B05B 1/08 (2013.01); **F15C 1/22** (2013.01)

Cited by
CN102688817A; US10427175B2

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005042169 A1 20050512; AT E380596 T1 20071215; DE 602004010697 D1 20080124; DE 602004010697 T2 20081204;
EP 1675686 A1 20060705; EP 1675686 B1 20071212

DOCDB simple family (application)
US 2004035108 W 20041019; AT 04796157 T 20041019; DE 602004010697 T 20041019; EP 04796157 A 20041019