

Title (en)
NOZZLE WITH MULTIPLE OUTLETS

Title (de)
DÜSE MIT MEHREREN AUSGÄNGEN

Title (fr)
INJECTEUR À SORTIES MULTIPLES

Publication
EP 3225722 A1 20171004 (EN)

Application
EP 15862295 A 20151124

Priority
• ES 201431738 A 20141124
• ES 2015070845 W 20151124

Abstract (en)
The invention relates to a nozzle with multiple outlets, comprising at least one chamber through which a fluid can flow, with a fluid inlet opening and a plurality of fluid outlet openings through which the fluid leaves the nozzle in optimum conditions for being acted upon electrohydrodynamically or aerohydrodynamically. The nozzle can be used with low-viscosity fluids as it comprises at least one fluid distributor (3) in the chamber, consisting of a hollow body through which the fluid entering the chamber flows. The fluid distributor (3) allows the uniform distribution of the fluid through all of the outlet openings of the chamber, and prevents the fluid from only flowing out through the outlet openings closest to the inlet opening. The invention improves results relating to the production of microstructured, submicrostructured and nanostructured materials.

IPC 8 full level
D01D 1/09 (2006.01); **B05B 1/14** (2006.01); **B05B 5/025** (2006.01); **D01D 4/06** (2006.01)

CPC (source: EP)
B05B 1/207 (2013.01); **B05B 5/0255** (2013.01); **D01D 1/06** (2013.01); **D01D 1/09** (2013.01); **D01D 4/025** (2013.01); **D01D 4/06** (2013.01); **D01D 5/0069** (2013.01)

Cited by
WO2020095331A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3225722 A1 20171004; **EP 3225722 A4 20180620**; **EP 3225722 B1 20190807**; CY 1122430 T1 20210127; DK 3225722 T3 20191118; ES 2754651 T3 20200420; HR P20192027 T1 20200207; HU E046324 T2 20200228; LT 3225722 T 20191210; PL 3225722 T3 20200518; PT 3225722 T 20191121; RS 59581 B1 20191231; SI 3225722 T1 20200228; WO 2016083643 A1 20160602

DOCDB simple family (application)
EP 15862295 A 20151124; CY 191101173 T 20191107; DK 15862295 T 20151124; ES 15862295 T 20151124; ES 2015070845 W 20151124; HR P20192027 T 20191107; HU E15862295 A 20151124; LT 15862295 T 20151124; PL 15862295 T 20151124; PT 15862295 T 20151124; RS P20191435 A 20151124; SI 201530983 T 20151124