

Title (en)
LIQUID-JET NOZZLE

Title (de)
FLÜSSIGKEITSSTRAHLDÜSE

Title (fr)
BUSE D'ÉJECTION DE LIQUIDE

Publication
EP 3551335 B1 20210616 (DE)

Application
EP 17828660 A 20171205

Priority
• DE 102016123994 A 20161209
• EP 2017081450 W 20171205

Abstract (en)
[origin: WO2018104266A1] The invention relates to a liquid-jet nozzle comprising a housing (1) which has a liquid inlet opening (2) and a jet outlet opening (3), and comprising a jet forming area (S) which is arranged between the liquid inlet opening (2) and the jet outlet opening (3) and which has a flow channel, the passage cross-section of which can be altered. The flow channel is radially outwardly delimited in the jet forming area (S) by an elastically deformable funnel membrane (12), the outer periphery of which is permanently sealed to the housing (1) and which is tapered in the throughflow direction (A). In order to automatically alter the passage cross-section according to the local liquid pressure, the funnel membrane radially expands when the liquid pressure increases, and radially contracts when the liquid pressure decreases.

IPC 8 full level
B05B 1/30 (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP US)
B05B 1/06 (2013.01 - US); **B05B 1/3006** (2013.01 - EP US); **B05B 1/3013** (2013.01 - EP US); **B05B 1/3402** (2018.07 - US)

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

DOCDB simple family (publication)
WO 2018104266 A1 20180614; DE 102016123994 A1 20180614; EP 3551335 A1 20191016; EP 3551335 B1 20210616;
US 2019299225 A1 20191003

DOCDB simple family (application)
EP 2017081450 W 20171205; DE 102016123994 A 20161209; EP 17828660 A 20171205; US 201916434517 A 20190607