

Title (en)  
Venturi mixing nozzle

Title (de)  
Venturi-Mischdüse

Title (fr)  
Venturi buse de mélange

Publication  
**EP 1685894 A3 20061213 (DE)**

Application  
**EP 06100235 A 20060111**

Priority  
DE 102005003661 A 20050126

Abstract (en)  
[origin: EP1685894A2] In a Venturi mixing nozzle with a housing (1), a fluid inlet section (2), a fluid outlet section, a flow region for a first fluid, a first pressure opening (P1) in the housing and a second pressure opening (P2) at the narrowest part of the Venturi nozzle in the housing, at least one transverse tube (3) in the fluid inlet section is connected with the first pressure opening and has an opening (Oe) lying in the flow region for the first fluid. An independent claim is included for a method for operating a mixing nozzle of this type (in which the first fluid flows from the fluid inlet section to the fluid outlet section), involving feeding part of the first fluid into the transverse tube (3) via the opening (Oe), to create a congestive pressure in the tube which at least balances the reduced pressure created by the flow velocity of the first fluid at the first pressure opening.

IPC 8 full level  
**B01F 5/04** (2006.01); **G01F 1/44** (2006.01)

CPC (source: EP)  
**B01F 25/312** (2022.01); **B01F 25/31242** (2022.01)

Citation (search report)

- [X] DE 1648173 A1 19710408 - ZINK CO JOHN
- [X] US 6058787 A 20000509 - HUGHES NATHANIEL [US]
- [X] US 5092159 A 19920303 - CHIEN SZE-FOO [US]

Cited by  
CN109813380A; DE102021119706A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1685894 A2 20060802; EP 1685894 A3 20061213**; DE 102005003661 A1 20060727; DE 102005003661 B4 20090108

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**EP 06100235 A 20060111**; DE 102005003661 A 20050126