Title (en)

NOZZLE WITH ADJUSTABLE-DELIVERY ROTARY JET

Title (de)

DÜSE MIT EINSTELLBAREM DREHSTRAHL

Title (fr)

BUSE A JET TOURNANT A DEBIT REGLABLE

Publication

EP 2054159 A2 20090506 (FR)

Application

EP 07803793 A 20070627

Priority

- FR 2007001084 W 20070627
- FR 0606618 A 20060720

Abstract (en)

[origin: WO2008009787A2] The invention relates to a nozzle (1) with a rotary jet, of the type formed of a static envelope (2) delimiting an open cavity (3) housing an injector (4) in which one end (4A) of the injector is driven in a circular path within a widened section (2A) of the envelope (2) under the effect of a fluid pressure with tangential delivery acting on said injector (4) while the other end (4B) of this injector (4) is housed in the opening (5) of the cavity (3) which is shaped in the form of a concave seat allowing the precessing movements of the injector (4). This nozzle is characterized in that it comprises, on the fluid inlet side, a static bushing (6) closed at its injector end (6A) by a transverse wall (7), the bushing body (6) having, near said transverse wall (7), radial orifices (8) that are directed in such a way as to generate, within the cavity (3) of the envelope (2), a swirling fluid flow that transmits its movement to the injector (4), said radial orifices (8) of the bushing (6) being regulated in terms of delivery by means of a controlled shutter (9).

IPC 8 full level

B05B 1/30 (2006.01); **B05B 3/04** (2006.01)

CPC (source: EP)

B05B 3/0463 (2013.01); B05B 1/3013 (2013.01)

Citation (search report)

See references of WO 2008009787A2

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008009787 A2 20080124; **WO 2008009787 A3 20080612**; EP 2054159 A2 20090506; FR 2903920 A1 20080125; FR 2903920 B1 20090313

DOCDB simple family (application)

FR 2007001084 W 20070627; EP 07803793 A 20070627; FR 0606618 A 20060720