

Title (en)

SPRAYING NOZZLE FOR REGULATING A RATE OF FLOW PER UNIT OF TIME

Title (de)

SPRITZDÜSE FÜR DIE REGULIERUNG DER DURCHFLUSSMENGE PRO ZEITEINHEIT

Title (fr)

BUSE DE PULVERISATION SERVANT A LA REGULATION D'UN DEBIT PAR UNITE DE TEMPS

Publication

EP 0775023 B1 19981118 (DE)

Application

EP 94914532 A 19940520

Priority

- CH 156193 A 19930525
- IB 9400118 W 19940520

Abstract (en)

[origin: WO9427729A1] A nozzle sleeve (1) contains supply channels (2), feeding channels (3, 5, 22, 24), concentric channels (4, 6), tangential channels (8) and a ring-shaped channel (7), as well as a core (13) which covers the various channels, so hermetically that they form ducts into which a liquid flows in and is pushed in a predetermined direction of rotation into the large concentric channel (4), then flows in the opposite direction of rotation into the small concentric channel (6) and finally flows once again in the predetermined direction of rotation through the feeding channels (5) and reaches a ring-shaped channel (7) from where it is sprayed out through the bore (9) of the nozzle sleeve (1). The changes in the direction or rotation cause turbulences which represent a braking force for the liquid flowing under pressure. The intensity of this braking force is directly proportional to the liquid pressure, so that the rate of flow per unit of time is held at least approximately constant.

IPC 1-7

B05B 1/34

IPC 8 full level

B05B 1/34 (2006.01); **B05B 7/04** (2006.01)

CPC (source: EP US)

B05B 1/3405 (2013.01 - EP US); **B05B 1/3436** (2013.01 - EP US); **B05B 7/0425** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IE IT LI LU NL SE

DOCDB simple family (publication)

WO 9427729 A1 19941208; AT E173416 T1 19981215; AU 6687194 A 19941220; AU 676909 B2 19970327; CA 2163533 A1 19941208; DE 59407318 D1 19981224; DK 0775023 T3 19990623; EP 0775023 A1 19970528; EP 0775023 B1 19981118; ES 2126753 T3 19990401; JP H08510411 A 19961105; US 5722598 A 19980303

DOCDB simple family (application)

IB 9400118 W 19940520; AT 94914532 T 19940520; AU 6687194 A 19940520; CA 2163533 A 19940520; DE 59407318 T 19940520; DK 94914532 T 19940520; EP 94914532 A 19940520; ES 94914532 T 19940520; JP 50044395 A 19940520; US 55329495 A 19951122