

Title (en)
NOZZLE WITH A ROTATING JET

Title (de)
DÜSE MIT ROTIERENDEM STRAHL

Title (fr)
BUSE A JET TOURNANT

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Application
EP 04786302 A 20040811

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Abstract (en)
[origin: US2006163383A1] The invention relates to a nozzle (1) with a rotating jet, said nozzle consisting of a static body (2 A) defining an open cavity (2 B) containing an injector (2 C). One end of the injector (2 C) is driven in a circular movement about a pivot (2 D) of the body (2 A) under the effect of water pressure having a tangential flow rate and acting on the injector (2 C), while the other end of said injector (2 C) is provided with a spray nozzle (2 E) and is arranged in the opening of the cavity (2 B) in the form of a concave seat (2 F) enabling the precession movements of the injector. The inventive nozzle is characterised in that the inner diameter (d 1) of the spray nozzle (2 E) measures between 2.8 and 6 mm while the smallest diameter (d 2) of the seat (2 F) measures between 4 and 11.5 mm, the smallest diameter (d 2) of the seat (2 F) being 1.7 times larger $\pm 10\%$ than the inner diameter (d 1) of the spray nozzle (2 E) in such a way as to enable the inventive nozzle to be supplied under a medium pressure.

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