

Title (en)
SPRAY NOZZLE WITH PROFILED CHANNELS

Title (de)
SPRÜHDÜSE MIT PROFILKANÄLEN

Title (fr)
BUSE DE PULVERISATION A CANAUX PROFILES

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Application
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Abstract (en)
[origin: WO02070141A1] According to the invention, the swirl chamber (7) in a liquid spray nozzle communicates with the outside by means of a coaxial outlet hole (10) and communicates with a coaxial circular channel (11) by means of numerous oblique first transfer channels (12-15). Each first transfer channel (14) is delimited by an external face (21) having a generally rectilinear profile which connects tangentially to the peripheral wall (8) of the swirl chamber (7), while the internal face is provided with a concave profile (L1) over most of the length thereof. In this way, the fineness of the droplets sprayed from the nozzle is improved, particularly when the liquid has a viscosity greater than that of water.

IPC 1-7
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