

Title (en)

SWIRLER AND CONE NOZZLE WITH SUCH A SWIRLER

Title (de)

DRALLKÖRPER SOWIE KEGELDÜSE MIT EINEM SOLCHEN DRALLKÖRPER

Title (fr)

CORPS DE TURBULENCE AINSI QUE BUSE À JET CONIQUE DOTÉE D'UN TEL CORPS DE TURBULENCE

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Application

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Abstract (en)

[origin: WO2018011427A1] The present invention relates to a swirler (1), in particular for use in a cone nozzle (19), such as a solid cone nozzle or a hollow cone nozzle, in order to set a fluid flowing through in rotation, with a cylindrical base section (2), which defines a cylindrical exterior surface (3), wherein one end section (8, 9) defining a conically tapering and a conical end face (6, 7) respectively adjoins each end-face end (4, 5) of the base section (2), and wherein, in the cylindrical exterior surface (3) of the swirler (1), a plurality of swirl channels (11) of identical geometry and running at an angle to a central axis (L) of the swirler (1) are formed with a uniform offset around the circumference of the swirler (1) and each swirl channel (11) opens into both conical end faces (6, 7), wherein exactly two swirl channels (11) are formed in the cylindrical exterior surface (3) of the swirler (1) with an offset of 180° in relation to one another, each channel opening into both end faces (6, 7).

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