

Title (en)

FLUID FLOW ENGINE AND FLOW GUIDE ELEMENT FOR A FLUID FLOW ENGINE

Title (de)

STRÖMUNGSMASCHINE, SOWIE STRÖMUNGSLEITELEMENT FÜR EINE STRÖMUNGSMASCHINE

Title (fr)

TURBOMACHINE ET ÉLÉMENT DE GUIDAGE D'ÉCOULEMENT POUR UNE TURBOMACHINE

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Application

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Abstract (en)

[origin: WO2014122016A1] The invention relates to a turbomachine (1), in particular a pump or turbine, comprising an impeller (2) which is arranged in an impeller area (3) of a housing (4) of the turbomachine (1) in a rotatable manner about a rotational axis (A). In order to exchange energy between a flow energy of a flowing fluid (F) and a mechanical rotational energy, the fluid (F) can be fed to the housing (4) of the turbomachine such that the fluid can be brought into fluidic contact with the impeller (2) so as to exchange energy and can be discharged again out of the housing (4) of the turbomachine. According to the invention, a flow conducting element (5, 51, 52) which runs about the rotational axis (A) in a circumferential direction (U) of the impeller (2) is provided in the impeller area (3) between an inner wall (31) of the impeller area (3) and the impeller (2) such that the impeller (2) is surrounded by the flow conducting element (5, 51, 52) with a specifiable axial width (B). The invention further relates to a flow conducting element (5, 51, 52) for a turbomachine (1).

IPC 8 full level

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