

Title (en)

IMPELLER UNIT, PUMP, ROCKET ENGINE, AND METHOD FOR PRODUCING AN IMPELLER UNIT

Title (de)

IMPELLEREINHEIT, PUMPE, RAKETENTRIEBWERK UND VERFAHREN ZUR HERSTELLUNG EINER IMPELLEREINHEIT

Title (fr)

UNITÉ DE TURBINE, POMPE, MOTEUR DE FUSÉE ET PROCÉDÉ DE PRODUCTION D'UNE UNITÉ DE TURBINE

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Application

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Abstract (en)

[origin: WO2022008499A1] The invention relates to an impeller unit (100) for a pump (200), having an inlet (102) and an outlet (104) for a fluid flow (50), comprising an impeller section (10) arranged in the axial direction (70) and a front rotor section (20) arranged coaxially upstream of the impeller section (10), the front rotor section (20) having blades (22) to direct the fluid flow (50) in the axial direction (70) onto blades (16) of the impeller section (10). The impeller section (10) has blades (16) arranged on a baseplate (14) to direct the fluid flow (50) coming from the front rotor section (20) to the outlet (104). The impeller section (10) and the front rotor section (20) are integrated as one component (80) which is encased in a closed manner from the inlet (102) to the outlet (104). The invention also relates to a pump (200) having an impeller unit (100), to a rocket engine (500) having such a pump (200), and to a method for producing an impeller unit (100).

IPC 8 full level

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