

Title (en)
IMPELLER FOR REGENERATIVE PUMP

Title (de)
LAUFRAD, INSBESONDERE FÜR EINE SEITENKANALMASCHINE

Title (fr)
ROTOR POUR TURBOMACHINE RÉGÉNÉRATRICE

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Application
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Abstract (en)
[origin: WO2015169496A1] The invention relates to an impeller (1), in particular for a side channel machine, having blades (5) which are arranged distributed in the circumferential direction, are formed in each case by a blade wall (6) and form open blade chambers (4) in a plan view of the impeller (1), wherein a blade wall (6) begins, in plan view, at a first radius dimension (r1) in relation to the geometric impeller rotational axis (x), which radius dimension (r2) corresponds to half or more of a second radius dimension (r2), which radius dimension (r2) defines a circumferential edge (9) of the impeller (1), and wherein the radius dimension (r2) defines a radially inner boundary wall (7) of the blade chamber (4), wherein, furthermore, a blade wall (6) has an exposed upper termination edge which correspondingly runs radially on the inside into the inner boundary wall (7) and ends radially on the outside in plan view, wherein an imaginary connecting line (V) can be drawn between a run-in point of the termination edge into the inner boundary wall (7) and a radially outer end of the termination edge (12), and the termination edge runs perpendicularly with respect to the connecting line (V) with a different offset dimension, wherein a greatest offset dimension is given. For advantageous development, in particular with regard to an improved degree of efficiency, it is proposed that the greatest offset dimension corresponds to 0.1 times or more the difference of the second (r2) and the first radius dimension (r1).

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