

Title (en)

SCRAPER ELEMENT FOR THE LEADING EDGES OF IMPELLERS OF WASTE WATER PUMPS

Title (de)

ABSTREIFELEMENT FÜR LAUFRADEINTRITTSKANTEN VON ABWASSERPUMPEN

Title (fr)

ÉLÉMENT DE RACLAGE POUR BORDS D'ATTAQUE DE ROUE À AUBES POUR DES POMPES À EAU

Publication

**EP 3779201 B1 20230607 (DE)**

Application

**EP 19191970 A 20190815**

Priority

EP 19191970 A 20190815

Abstract (en)

[origin: CA3149426A1] The invention relates to a wastewater pump for conveying solids-laden wastewater with a spiral housing with an inlet opening, an impeller with at least one vane, wherein the leading edge which is assigned to the respective vane runs from the impeller hub in a backwardly curved manner towards the outside, and at least one finger for wiping off contaminants from the leading edge, wherein the finger is arranged on the inlet inner wall and extends in the direction of the rotational axis R of the impeller, and wherein at least one groove which is made in a suction-side inner wall of the housing is provided, and the leading edge of the impeller and the upper finger surface which faces toward the leading edge are at an angle  $\alpha$  with respect to the perpendicular projection area of the rotational axis R of from 5° to 75°.

IPC 8 full level

**F04D 7/04** (2006.01); **F04D 29/22** (2006.01); **F04D 29/70** (2006.01)

CPC (source: CN EP US)

**F04D 7/04** (2013.01 - US); **F04D 7/045** (2013.01 - CN EP); **F04D 29/2288** (2013.01 - CN EP US); **F04D 29/708** (2013.01 - CN EP US)

Citation (examination)

US 3096718 A 19630709 - ANDERSON ROY N

Cited by

EP4102080A1; EP3988793A1; US11994149B2; WO2022258595A1

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DOCDB simple family (publication)

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BR 112022002294 A2 20220426; CA 3149426 A1 20210218; CN 114245849 A 20220325; HU E062508 T2 20231128;  
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