

Title (en)

Mixed flow pump

Title (de)

Schraubenzentrifugalradpumpe

Title (fr)

Pompe à écoulement mixte

Publication

**EP 1584820 A1 20051012 (DE)**

Application

**EP 04405214 A 20040407**

Priority

EP 04405214 A 20040407

Abstract (en)

Screw centrifuge wheel pump (1) comprises a guide blade (5) arranged in the region of an inlet opening (3c) and protruding into the inner chamber of the running wheel (2). The guide blade has an edge (5a) which protrudes into the inner chamber of the running wheel in the rotary direction (4a) increasing in the direction of the axis of rotation. The running wheel and the guide blade are structured so that a part of the solid mixture flows along an inlet blade edge (2a). An independent claim is also included for a process for conveying a liquid with solid additives. Preferred Features: The guide blade slides in the direction of the axis of rotation.

Abstract (de)

Die Schraubenzentrifugalradpumpe (1) umfasst ein Pumpengehäuse (3) mit einer Eintrittsöffnung (3c) sowie ein innerhalb des Pumpengehäuses (3) um eine Drehachse (2d) in Drehrichtung (4a) drehbar angeordnetes Laufrad (2), welches eine spiralförmig verlaufende Eintrittsschaufelkante (2a) aufweist, wobei im Bereich der Eintrittsöffnung (3c) eine in den Innenraum des Laufrades (2) vorstehende Leitschaufel (5) fest angeordnet ist.

<IMAGE>

IPC 1-7

**F04D 7/04**; **F04D 1/04**

IPC 8 full level

**F04D 1/04** (2006.01); **F04D 7/04** (2006.01)

CPC (source: EP US)

**F04D 1/04** (2013.01 - EP US); **F04D 7/04** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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