

Title (en)

DISCHARGE MERGING PORTION, PUMP CASING, AND PUMP APPARATUS

Title (de)

AUSSTRÖMZUSAMMENFÜHRUNGSABSCHNITT, PUMPENGEHÄUSE UND PUMPVORRICHTUNG

Title (fr)

PARTIE DE FUSION DE DÉCHARGE, BOÎTIER DE POMPE ET APPAREIL DE POMPE

Publication

**EP 4102078 A2 20221214 (EN)**

Application

**EP 22177041 A 20220602**

Priority

JP 2021095052 A 20210607

Abstract (en)

There is provided a discharge merging portion for a plurality of passages to transfer the liquid, reduced in pressure loss as compared with an existing discharge merging portion. An on-off valve 28 includes a first surface 110 to close a first opening 106, and a second surface 112 to close a second opening 108. The first surface 110 and the second surface 112 are opposed to each other. Each of the first surface 110 and the second surface 112 includes an upstream end part 1101 positioned on an upstream side of the liquid which is transferable, a downstream end part 1102 positioned on a downstream side, and a center part 1103 positioned between the upstream end part 1101 and the downstream end part 1102. The first surface 110 is a curved surface curved toward the second surface 112. The center part 1103 of the first surface 110 is recessed toward the second surface 112 relative to the upstream end part 1101 and the downstream end part 1102 of the first surface 110, and a recessed amount is increased from the upstream end part 1101 and the downstream end part 1102 toward the center part 1103.

IPC 8 full level

**F04D 15/00** (2006.01)

CPC (source: EP)

**F04D 13/06** (2013.01); **F04D 15/0016** (2013.01); **F04D 15/005** (2013.01); **F04D 15/029** (2013.01); **F04D 13/14** (2013.01)

Citation (applicant)

- EP 2161455 A1 20100310 - GRUNDFOS MANAGEMENT AS [DK]
- DE 3142638 A1 19830505 - KLEIN SCHANZLIN & BECKER AG [DE]

Designated contracting state (EPC)

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BA ME

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KH MA MD TN

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DOCDB simple family (application)

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