

Title (en)
PUMP WITH A CONVEYOR DEVICE AT LEAST FOR CONVEYING A FLUID, AND SUCH A CONVEYOR DEVICE

Title (de)
PUMPE MIT EINER FÖRDERVORRICHTUNG ZUMINDEST ZU EINEM FÖRDERN EINES FLUIDS UND DERARTIGE FÖRDERVORRICHTUNG

Title (fr)
POMPE DOTÉE D'UN DISPOSITIF DE TRANSPORT AU MOINS POUR LE TRANSPORT D'UN FLUIDE, ET DISPOSITIF DE TRANSPORT DE CE TYPE

Publication
EP 4048896 A1 20220831 (DE)

Application
EP 20800033 A 20201022

Priority
• DE 102019128680 A 20191023
• EP 2020079823 W 20201022

Abstract (en)
[origin: CA3158193A1] The invention relates to a pump at least for conveying a fluid, comprising at least one conveyor device which has at least one conveyor chamber (18), at least one dimensionally stable conveyor chamber element (20) that at least partly delimits the conveyor chamber (18), and at least one elastically deformable conveyor element (22) that together with the conveyor chamber element (22) delimits the conveyor chamber (18) and is arranged on the conveyor chamber element (22); at least one drive unit (16) for acting on the conveyor device; and at least one housing (14) for receiving the conveyor device, wherein the housing (14) is formed at least separately from the conveyor chamber element (20) of the conveyor device, in particular from the conveyor device as a whole, in particular such that the conveyor chamber element (20), in particular the conveyor device, can be removed as a whole from the housing (14). According to the invention, the conveyor chamber element (20) has an outer face which is connected to an inner face of the housing (14) in a force- and/or form-fitting manner when the conveyor device is arranged on the housing (14), in particular the outer face rests against the inner face of the housing (14) when the conveyor device is arranged on the housing (14), and the conveyor chamber element (20) at least largely surrounds the conveyor element (22) along a circumferential direction running on a plane extending at least substantially perpendicular to the drive axis (70) of the drive unit (16).

IPC 8 full level
F04B 43/00 (2006.01); **F04B 43/08** (2006.01); **F04B 43/12** (2006.01); **F04B 53/16** (2006.01); **F04B 53/22** (2006.01); **F04C 5/00** (2006.01)

CPC (source: EP IL KR US)
F04B 43/0009 (2013.01 - EP IL); **F04B 43/0054** (2013.01 - EP IL); **F04B 43/0072** (2013.01 - EP IL KR); **F04B 43/08** (2013.01 - KR US); **F04B 43/084** (2013.01 - EP IL); **F04B 43/12** (2013.01 - US); **F04B 43/123** (2013.01 - EP IL KR); **F04B 53/16** (2013.01 - EP IL KR US); **F04B 53/22** (2013.01 - EP IL KR US); **F04C 5/00** (2013.01 - EP IL KR US); **F04C 15/0065** (2013.01 - EP IL KR)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102019128680 A1 20210429; AU 2020370731 A1 20220602; AU 2020370731 B2 20231214; BR 112022007462 A2 20220712; CA 3158193 A1 20210429; CN 114846239 A 20220802; EP 4048896 A1 20220831; IL 292163 A 20220601; JP 2022553531 A 20221223; JP 7434542 B2 20240220; KR 102735645 B1 20241127; KR 20220110482 A 20220808; US 11953011 B2 20240409; US 2022397114 A1 20221215; WO 2021078902 A1 20210429; ZA 202203977 B 20221221

DOCDB simple family (application)
DE 102019128680 A 20191023; AU 2020370731 A 20201022; BR 112022007462 A 20201022; CA 3158193 A 20201022; CN 202080080955 A 20201022; EP 2020079823 W 20201022; EP 20800033 A 20201022; IL 29216322 A 20220411; JP 2022523287 A 20201022; KR 20227016943 A 20201022; US 202017755215 A 20201022; ZA 202203977 A 20220407