

Title (en)
DRIVE DEVICE FOR A HIGH-PRESSURE CLEANING APPARATUS

Title (de)
ANTRIEBSVORRICHTUNG FÜR EIN HOCHDRUCKREINIGUNGSGERÄT

Title (fr)
DISPOSITIF D'ENTRAÎNEMENT D'APPAREIL DE NETTOYAGE À HAUTE PRESSION

Publication
EP 4298361 A1 20240103 (DE)

Application
EP 22702705 A 20220128

Priority

- DE 102021104570 A 20210225
- EP 2022052082 W 20220128

Abstract (en)
[origin: WO2022179798A1] The invention relates to a drive device (10) for a high-pressure cleaning apparatus, comprising a motor (12), the motor shaft (14) of which is rotatably mounted to a motor flange (18) and coupled to a swash plate arrangement (22) via a planetary gear set (20), wherein the planetary gear set (20) has a sun gear (36) connected in a rotationally fixed manner to the motor shaft (14), which sun gear meshes with planetary gears (38, 40) which are mounted so as to be able to rotate on a planet carrier (46) and engage with an internally toothed hollow gear (34), and wherein the swash plate arrangement (22) is positioned in an oil housing (52). In order to further develop the drive device (10) in such a manner that it has a longer service life and allows a greater selection of materials during production, it is proposed according to the invention that the motor flange (18) and the oil housing (52) are separate components, wherein the motor flange (18) comprises the hollow gear (34) and the oil housing (52) is fixed to the motor flange (18), the motor flange (18) forming a centering for the oil housing (52).

IPC 8 full level
F16H 23/10 (2006.01); **B08B 3/02** (2006.01); **F04B 1/145** (2020.01); **F04B 1/146** (2020.01); **F04B 17/03** (2006.01); **F16C 19/10** (2006.01); **F16H 37/12** (2006.01); **F16H 57/04** (2010.01); **F16H 57/08** (2006.01); **H02K 7/075** (2006.01); **H02K 7/116** (2006.01)

CPC (source: EP US)
B08B 3/02 (2013.01 - US); **B08B 3/026** (2013.01 - EP); **F04B 1/14** (2013.01 - EP); **F04B 1/145** (2013.01 - EP); **F04B 1/146** (2013.01 - EP); **F04B 17/03** (2013.01 - EP); **F16H 23/10** (2013.01 - EP); **F16H 37/12** (2013.01 - EP); **F16H 37/124** (2013.01 - US); **F16H 57/043** (2013.01 - US); **F16H 57/045** (2013.01 - EP US); **F16H 57/0486** (2013.01 - US); **F16H 57/082** (2013.01 - EP US); **H02K 5/124** (2013.01 - EP); **H02K 7/14** (2013.01 - EP); **B08B 2203/0223** (2013.01 - US); **B08B 2203/0294** (2013.01 - EP US); **F04B 1/128** (2013.01 - US); **F04B 17/03** (2013.01 - US); **F04B 19/04** (2013.01 - US); **F16C 19/10** (2013.01 - EP); **F16C 35/067** (2013.01 - EP); **F16C 2235/00** (2013.01 - EP); **F16C 2360/42** (2013.01 - EP); **F16H 1/28** (2013.01 - EP); **F16H 57/043** (2013.01 - EP)

Citation (search report)
See references of WO 2022179798A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102021104570 A1 20220825; CN 116670411 A 20230829; EP 4298361 A1 20240103; US 2023400088 A1 20231214; WO 2022179798 A1 20220901

DOCDB simple family (application)
DE 102021104570 A 20210225; CN 202280008634 A 20220128; EP 2022052082 W 20220128; EP 22702705 A 20220128; US 202318454501 A 20230823