

Title (en)
FLUID DELIVERY DEVICE

Title (de)
FLUIDFÖRDEREINRICHTUNG

Title (fr)
DISPOSITIF DE REFOULEMENT DE FLUIDE

Publication
EP 3827170 A1 20210602 (DE)

Application
EP 19744680 A 20190723

Priority
• DE 102018212497 A 20180726
• EP 2019069825 W 20190723

Abstract (en)
[origin: WO2020020902A1] The invention relates to a fluid delivery device (1) having a primary pump (2) and a main pump (3) fluidically connected to the primary pump (2), wherein the primary pump (2) can be driven by a primary pump input shaft (8), and the main pump (3) can be driven by a main pump input shaft (9), and the primary pump input shaft (8) and the main pump input shaft (9) are mechanically coupled to a common drive shaft (7) of the fluid delivery device (1). The invention is characterized in that the primary pump (2) is in the form of a non-compensated gear pump or a centrifugal pump and the main pump (3) is in the form of a compensated internal gear pump.

IPC 8 full level
F04C 2/10 (2006.01); **F04C 23/00** (2006.01); **F04D 9/00** (2006.01)

CPC (source: EP US)
F04C 2/101 (2013.01 - EP US); **F04C 23/003** (2013.01 - EP); **F04C 23/005** (2013.01 - US); **F04D 13/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2020020902A1

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)
WO 2020020902 A1 20200130; CN 112513464 A 20210316; CN 112513464 B 20230526; DE 102018212497 A1 20200130; EP 3827170 A1 20210602; US 11624365 B2 20230411; US 2021285448 A1 20210916

DOCDB simple family (application)
EP 2019069825 W 20190723; CN 201980049877 A 20190723; DE 102018212497 A 20180726; EP 19744680 A 20190723; US 201917261910 A 20190723