

Title (en)
PUMP ASSEMBLY

Title (de)
PUMPENANORDNUNG

Title (fr)
ENSEMBLE FORMANT POMPE

Publication
EP 3853480 A1 20210728 (DE)

Application
EP 19768796 A 20190912

Priority
• DE 102018216048 A 20180920
• EP 2019074355 W 20190912

Abstract (en)
[origin: WO2020058081A1] The invention relates to a pump assembly, having an intake opening 5 for sucking a flow medium into a flow chamber 6, a discharge opening 7 for discharging the flow medium out of the flow chamber 6, an impeller shaft 18 which can rotate about a rotational axis A and extends into the flow chamber 6, and an impeller mounted on an end 19 of the impeller shaft 18 located within the flow chamber 6, which impeller is designed as a channel impeller with a cover plate 22 forming a suction mouth 24, a support plate 21 with a hub area 26 and at least one vane 23 arranged between the cover plate 22 and the support plate 21. According to the invention, a wiper finger 43 of a solids wiper device 35 extends in the axial direction through the intake opening 5 and the suction mouth 24 to the vicinity of the hub area 26 of the impeller 20.

IPC 8 full level
F04D 7/04 (2006.01); **F04D 29/20** (2006.01); **F04D 29/22** (2006.01)

CPC (source: EP KR)
F04D 7/04 (2013.01 - KR); **F04D 7/045** (2013.01 - EP); **F04D 29/20** (2013.01 - EP KR); **F04D 29/225** (2013.01 - EP KR); **F05D 2210/11** (2013.01 - KR); **F05D 2240/30** (2013.01 - KR); **F05D 2240/303** (2013.01 - EP)

Citation (search report)
See references of WO 2020058081A1

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 102018216048 A1 20200326; CN 112703319 A 20210423; CN 112703319 B 20231110; EP 3853480 A1 20210728; KR 20210063333 A 20210601; WO 2020058081 A1 20200326

DOCDB simple family (application)
DE 102018216048 A 20180920; CN 201980061667 A 20190912; EP 19768796 A 20190912; EP 2019074355 W 20190912; KR 20217008082 A 20190912