

Title (en)  
SCREW PUMP

Title (de)  
SCHRAUBENSPINDELPUMPE

Title (fr)  
POMPE À VIS

Publication  
**EP 3832137 B1 20231213 (DE)**

Application  
**EP 20205416 A 20201103**

Priority  
DE 102019132653 A 20191202

Abstract (en)  
[origin: US2021164466A1] A screw spindle pump for delivering a cooling liquid for cooling a battery and/or power electronics or a cleaning or supply liquid of a motor vehicle, including a housing in which a working spindle, which is coupled to a drive assembly, and at least one running spindle, which meshes with the latter, are accommodated, and including a feather key-like support element, which is fixed by the housing and against which the working spindle and the running spindle are axially supported. In the housing, there is provided at least one aperture through which it is possible to insert the support element, which, in the assembled position, is received with one end in the aperture and with the other end in a receiving part situated diametrically opposite the aperture, wherein the support element is secured via at least one securing element which closes the aperture at the outside.

IPC 8 full level  
**F04C 2/16** (2006.01); **F01C 21/10** (2006.01)

CPC (source: CN EP KR US)  
**F01C 21/108** (2013.01 - EP); **F04C 2/082** (2013.01 - US); **F04C 2/107** (2013.01 - KR); **F04C 2/16** (2013.01 - CN EP); **F04C 2/165** (2013.01 - US); **F04C 11/008** (2013.01 - US); **F04C 15/00** (2013.01 - CN); **F04C 15/0003** (2013.01 - KR); **F04C 2210/1044** (2013.01 - US); **F04C 2230/60** (2013.01 - US); **F04C 2240/20** (2013.01 - KR); **F04C 2240/30** (2013.01 - EP KR US); **F04C 2240/805** (2013.01 - EP); **F05B 2210/11** (2013.01 - KR)

Cited by  
US11828287B2

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

DOCDB simple family (publication)  
**EP 3832137 A1 20210609; EP 3832137 B1 20231213**; CN 112983808 A 20210618; CN 112983808 B 20230714;  
DE 102019132653 A1 20210602; JP 2021088988 A 20210610; JP 7019786 B2 20220215; KR 102386072 B1 20220413;  
KR 20210069562 A 20210611; PL 3832137 T3 20240429; SI 3832137 T1 20240628; US 11371501 B2 20220628; US 2021164466 A1 20210603

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**EP 20205416 A 20201103**; CN 202011356555 A 20201126; DE 102019132653 A 20191202; JP 2020196611 A 20201127;  
KR 20200152255 A 20201113; PL 20205416 T 20201103; SI 202030388 T 20201103; US 202017108463 A 20201201