

Title (en)  
PUSHER CENTRIFUGE

Title (de)  
SCHUBZENTRIFUGE

Title (fr)  
CENTRIFUGEUSE À CISAILLEMENT

Publication  
**EP 3760318 B1 20230927 (DE)**

Application  
**EP 20175188 A 20200518**

Priority  
DE 102019117721 A 20190701

Abstract (en)  
[origin: US2021001353A1] A pusher centrifuge includes a rotatable filter drum having a drum body and a piston that are configured to be reciprocated axially relative to one another, a filter drum drive shaft rigidly connected to the filter drum, a hydraulic push mechanism for generating an axial oscillating push force and connected to the filter drum so as to cause the relative reciprocating movement between the piston and the drum body, a hydraulic pump including a pump input shaft and is in fluid connection with the hydraulic push mechanism, and a drive motor including at least one output shaft connected to the pump input shaft and the filter drum drive shaft to actuate both the pump input shaft and the filter drum drive shaft. The at least one output shaft of the drive motor is connected to the pump input shaft in a manner without an intervening gearbox, thereby forming a direct drive.

IPC 8 full level  
**B04B 3/02** (2006.01)

CPC (source: EP US)  
**B04B 3/02** (2013.01 - EP US); **B04B 9/04** (2013.01 - US); **B04B 9/08** (2013.01 - US)

Cited by  
CN114887782A

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3760318 A1 20210106; EP 3760318 B1 20230927**; DE 102019117721 A1 20210107; DE 102019117721 B4 20220324;  
US 11590515 B2 20230228; US 2021001353 A1 20210107

DOCDB simple family (application)  
**EP 20175188 A 20200518**; DE 102019117721 A 20190701; US 202016916378 A 20200630