

Title (en)
PUMP ASSEMBLY COMPRISING A DRAIN PLUG

Title (de)
PUMPENANORDNUNG UMFASSEND EINE ABLASSSCHRAUBE

Title (fr)
ENSEMBLE POMPE DOTÉ D'UN BOUCHON DE VIDANGE

Publication
EP 4239203 A1 20230906 (EN)

Application
EP 23154893 A 20230203

Priority
EP 22159878 A 20220303

Abstract (en)
A pump assembly (100) includes a pump housing (110) adapted to house a drive motor (112) therein. The pump housing (110) defines an inlet opening (114), an outlet opening (116) and a drainage opening (118) therein. A drainage plug (120) is adapted to be engaged with the drainage opening (118). The pump assembly (100) is characterized in that the drainage plug (120) includes a first plug element (120A) having a first cross-sectional area (A1) and a second plug element (120B) having a second cross-sectional area (A2). The second plug element (120B) is coupled to the first plug element (120A) through a coupling rod (120C). A cross-sectional area (A3) of the coupling rod (120C) is smaller than the first cross-sectional area (A1) and the second cross-sectional area (A2).

IPC 8 full level
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CPC (source: CN EP)
F04B 53/00 (2013.01 - CN); **F04B 53/04** (2013.01 - CN); **F04B 53/10** (2013.01 - CN); **F04B 53/16** (2013.01 - CN); **F04D 13/16** (2013.01 - EP); **F04D 29/4293** (2013.01 - EP); **F04D 29/628** (2013.01 - EP); **F04D 29/708** (2013.01 - EP); **F05D 2250/52** (2013.01 - EP); **F05D 2260/602** (2013.01 - EP)

Citation (applicant)
CN 2826032 Y 20061011 - HANGZHOU NANFANG SPECIAL PUMP [CN]

Citation (search report)
• [XII] DE 19923350 A1 20000413 - GARDENA KRESS & KASTNER GMBH [DE]
• [XAI] DE 10241478 A1 20040325 - DAIMLER CHRYSLER AG [DE]
• [XAI] US 3319928 A 19670516 - ANDERSON NOEL M
• [A] WO 2019123504 A1 20190627 - DGFLOW S R L [IT]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 23154893 A 20230203; CN 202310226172 A 20230302; CN 202320390665 U 20230302