

Title (en)
PUMP UNIT WITH PUMP AND ELECTRIC MOTOR

Title (de)
PUMPENEINHEIT MIT PUMPE UND ELEKTROMOTOR

Title (fr)
UNITÉ DE POMPE AVEC POMPE ET MOTEUR ÉLECTRIQUE

Publication
EP 3869038 A1 20210825 (EN)

Application
EP 21157945 A 20210218

Priority
US 202016796177 A 20200220

Abstract (en)
Pump unit 26 for pressurising a hydraulic actuating system 21 including a pump housing 261 with a pump chamber 264 for housing a pump and an electric motor 3 for driving the pump. The electric motor, a brushless DC motor, comprises a motor rotor 31 with several magnets 33 at an outer surface, and a field coil positioned opposite the magnets for rotationally driving the motor rotor. The pump unit further comprises a control unit 29 including a printed circuit board PCB for controlling the electric motor. The control unit and a closure 29, 265 form a subassembly which is mountable as a module to close the pump chamber. The control unit comprises at least one Hall sensor 34 to detect a rotational position of the motor rotor. The at least one Hall sensor is positioned on the printed circuit board being positioned opposite a motor rotor end face 612.

IPC 8 full level
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CPC (source: CN EP)
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Citation (applicant)
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• GB 812812 A 19590429 - FRANCIS HENRY WOODCOCK
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• [Y] WO 2019081011 A1 20190502 - PIERBURG PUMP TECHNOLOGY GMBH [DE]
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