

Title (en)  
MODULAR SYSTEM OF AN AXIALLY INTEGRATED PUMP STRUCTURE

Title (de)  
BAUKASTENSYSTEM EINES AXIAL INTEGRIERTEN PUMPENAUFBAUS

Title (fr)  
SYSTÈME MODULAIRE D'UNE STRUCTURE DE POMPE AXIALEMENT INTÉGRÉE

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Application  
**EP 18826989 A 20181212**

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Abstract (en)  
[origin: WO2019174773A1] The invention relates to a modular system of a pump structure for the axial integration of a selection of electric drive assemblies (1) on a selection of pump assemblies (2) and a shaft-bearing assembly (3) which comprises a pump shaft (31) and a shaft bearing (32) having at least two rolling bearing rows, wherein the shaft bearing (32) supports the pump shaft (31) between a motor rotor (11) of the electric drive assembly (1) and a pump rotor (21) of the pump assembly (2) on a pump housing (20) of the pump assembly (2); wherein the selection of pump assemblies (2) together has a collar section (23) on the pump housing (20), which receives the shaft bearing (32) in a passage opening of the pump housing (20) and projects toward a receiving side for an electric drive unit (1); and the selection of pump assemblies (2) differs in relation to the pump rotor (21) and/or a pump chamber (22); the selection of drive assemblies (1) together has a motor rotor (11) which is formed on a radially outer section in the form of a rotor bell (13), wherein the rotor bell (13) runs radially around the collar section (23) which each each pump housing (20) from the selection of drive assemblies (1) has together; and the selection of drive assemblies (1) differs in relation to a stator (12); and wherein for each combination from the selection of electric drive assemblies (1) and the selection of pump assemblies (2), at least one radial dimension of the pump shaft, of the shaft bearing, of the collar section (23) and/or the rotor bell (13) is the same.

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