

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
05 August 2021 (05.08.2021)



(10) International Publication Number  
**WO 2021/152294 A1**

(51) International Patent Classification:

*F16J 15/02* (2006.01) *F04C 25/00* (2006.01)  
*F04C 18/00* (2006.01) *F04C 27/00* (2006.01)  
*F04C 23/00* (2006.01) *F16J 15/06* (2006.01)

(21) International Application Number:

PCT/GB2021/050163

(22) International Filing Date:

25 January 2021 (25.01.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2001318.1 30 January 2020 (30.01.2020) GB

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(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,  
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,  
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,  
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,  
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,  
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,  
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,  
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: A PUMP AND A SET OF SEALS SEALING THE STATOR COMPONENTS OF SUCH A PUMP

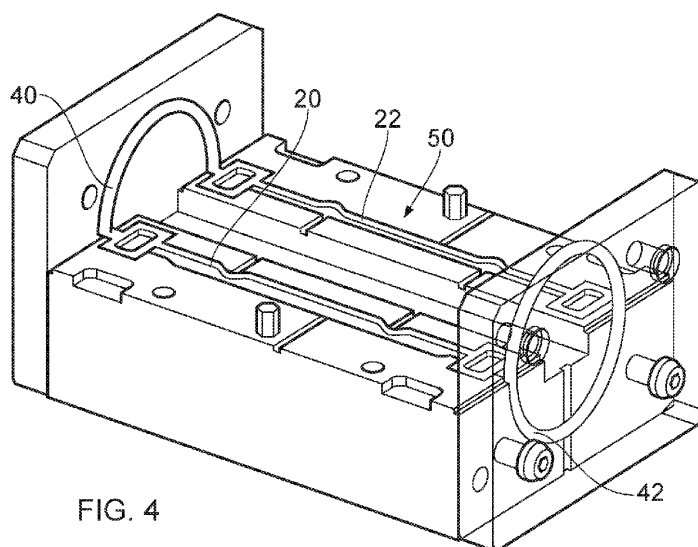


FIG. 4

(57) Abstract: A set of seals for sealing between the stator components of a pump, the stator components comprising two half shells defining at least one pumping chamber and two head plates to be mounted at either end of the two half shells. The set of seals comprises: at least one annular seal for sealing between at least one of the head plates and the two half shells; two longitudinal seals for sealing between longitudinal contact faces of the two half shell stators on either side of the at least one pumping chamber, the longitudinal seals being configured to have end portions that abut against the at least one annular seal when mounted in the pump. Each of the seals within the set of seals are made of a material having at least one of: a hardness between 73 – 83, preferably 75 – 81 on the Shore A hardness scale; and a stiffness of between 2.4 and 4.2 N/mm per mm length, wherein the stiffness is measured by axially compressing at room temperature an O-ring of the material, the O-ring having a cross section diameter of 3.4 mm and an internal diameter of at least 40 mm.

WO 2021/152294 A1

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**(84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report (Art. 21(3))