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*H01R 13/52* (2006.01)      *F04B 47/06* (2006.01)  
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(54) Title: ELECTRICAL FEEDTHROUGH FOR SUBSEA SUBMERSIBLE WELL PUMP IN CANISTER

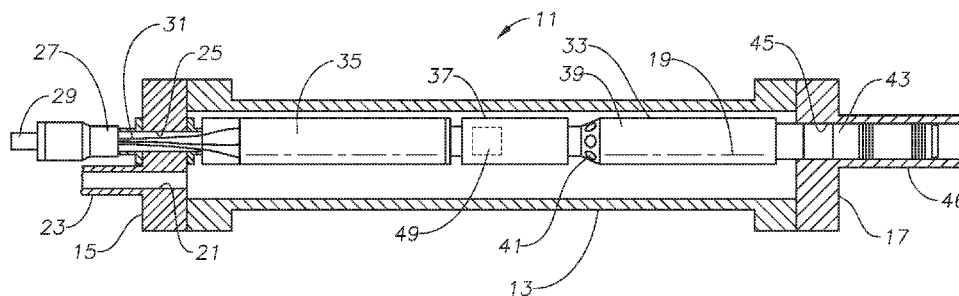


FIG. 1

(57) Abstract: A subsea pump assembly (11) includes a tubular conduit (13) that has an upstream end plate (15) and an inlet (21) for flowing well fluid into an interior of the conduit. A power cable opening (25) extends through the upstream end plate. An electrical submersible pump (39) and motor (35) are in the interior of the conduit. The motor has a motor assembly housing (51) with an upstream end having an electrical insulator opening (60). An end connection (63) secures the upstream end to an interior side of the upstream end plate with the insulator opening registering with the power cable opening. An insulated electrical connector (67) is mounted in the insulator opening. A motor wire (57) in the motor assembly housing joins to an inner end of the electrical connector. A power conductor (31) extends from exterior of the conduit through the power cable opening and joins to an outer end of the electrical connector.



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**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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- *with international search report (Art. 21(3))*

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**A. CLASSIFICATION OF SUBJECT MATTER**

**F04D 13/10(2006.01)i, F04D 13/08(2006.01)i, H01R 13/52(2006.01)i, E21B 17/02(2006.01)i, E21B 43/12(2006.01)i, F04B 17/03(2006.01)i, F04B 47/06(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

F04D 13/10; F04B 39/02; F04B 35/04; E21B 43/00; F04B 49/00; F04B 47/00; F04D 29/58; F04B 17/03; F04D 13/08; H01R 13/52; E21B 17/02; E21B 43/12; F04B 47/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models  
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: subsea pump, tubular conduit, canister, power cable, electrical submersible pump, ESP, motor, motor housing, feedthrough, power cable opening

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010-0329908 A1 (MARTINEZ et al.) 30 December 2010 See abstract, paragraphs [0015]-[0018], claims 1, 14, and figure 1.	1-6, 11-14
A		7-10
A	US 2010-0329893 A1 (MARTINEZ et al.) 30 December 2010 See abstract, paragraphs [0021]-[0027], claim 20, and figures 1, 3.	1-14
A	US 2011-0056699 A1 (BJOROY et al.) 10 March 2011 See abstract, paragraphs [0017]-[0023], and figures 1-2.	1-14
A	US 2011-0024124 A1 (BROWN et al.) 03 February 2011 See abstract, paragraphs [0014]-[0017], and figures 1-2.	1-14
A	US 2009-0068037 A1 (SHAW et al.) 12 March 2009 See abstract, paragraphs [0017]-[0020], and figures 1-2.	1-14

Further documents are listed in the continuation of Box C.

See patent family annex.

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"&" document member of the same patent family

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Name and mailing address of the ISA/KR

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2016/067354**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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