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(54) Title: ZERO-RELAXATION PACKER SETTING LOCK SYSTEM

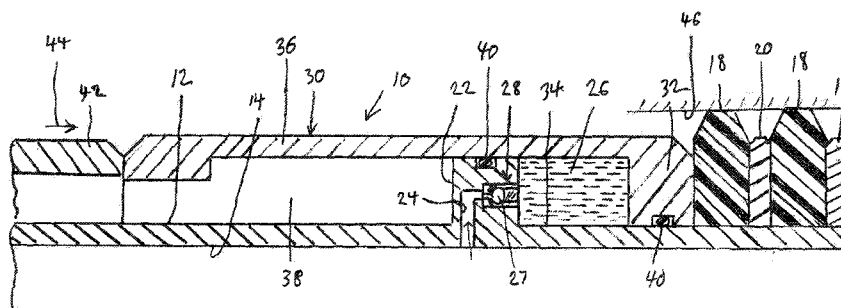


FIG. 2

(57) Abstract: A packer mandrel is radially surrounded by an axially compressible packer element and a backing ring. A setting sleeve arrangement also surrounds the packer mandrel adjacent the packer element. A hydraulic locking mechanism is used to secure the setting sleeve arrangement against the packer element. The hydraulic locking mechanism includes an expansible fluid-sealed chamber that is defined between the setting sleeve and the central packer mandrel.

A. CLASSIFICATION OF SUBJECT MATTER***E21B 33/128(2006.01)i, E21B 23/06(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)

IPC: E21B 33/128, E21B 23/06

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 since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKIPASS(KIPO internal)&keywords: "packer", "lock", "valve"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5404956 A (BOHLEN, J. T. ET AL.) 11 April 1995 See abstract and Figure 1	1-17
A	US 5692564 A (BROOKS, R. T.) 02 December 1997 See abstract and Figure 3	1-17
A	US 5813456 A (MILNER, J. E.; FARLEY, D. L.) 29 September 1998 See abstract and Figure 2	1-17



Further documents are listed in the continuation of Box C.



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* Special categories of cited documents:

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05404956 A	11.04.1995	none	
US 05692564 A	02.12.1997	AU 719793 B2 AU 1996-70343 B2 GB 2306986 A	18.05.2000 23.10.1996 14.05.1997
US 05813456 A	29.09.1998	none	