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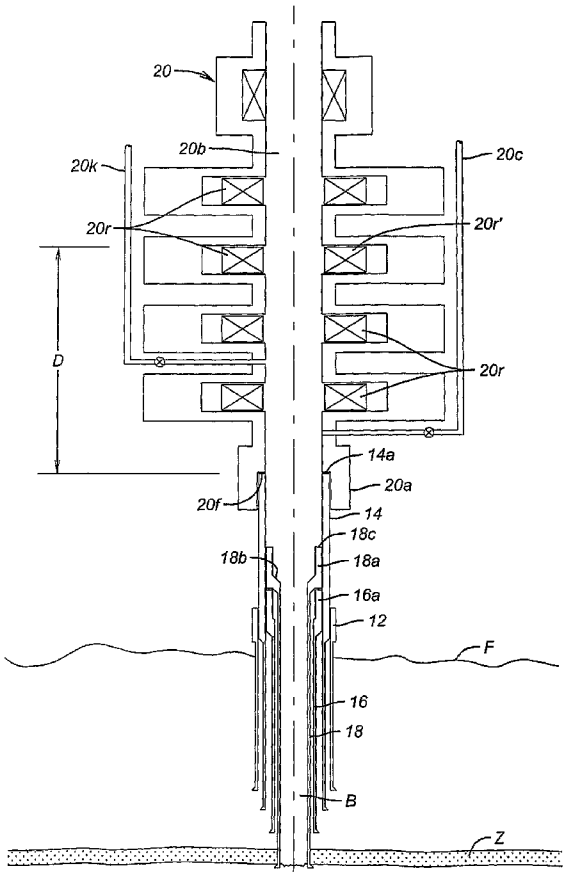
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[Continued on next page]

(54) Title: UNIVERSAL TUBING HANGER SUSPENSION ASSEMBLY AND WELL COMPLETION SYSTEM AND METHOD OF INSTALLING SAME



(57) Abstract: A tubing hanger suspension assembly for an oil and gas well completion system and a method of installing same. The tubing hanger suspension assembly includes a tubing hanger housing which is positioned in the wellhead housing. The tubing hanger assembly includes a sealing and lockdown mechanism capable of providing sealing and load support of the production tubing in the production casing string. A stab sub assembly connected to the upper end of the tubing hanger suspension assembly and lower end of the Christmas tree assembly provides downhole hydraulic and electric functionality and annulus access to the production tubing.

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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))*

Published:

— *with international search report*

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US06/18304

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **E21B 23/01**(2007.01)

USPC: 166/382,75.14,208,368
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)
U.S. : 166/75.14,208,360,368,382

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,640,902 B2 (BATEN et al.) 04 November 2003 (04.11.2003), see entire document, including the figures.	1-26, 30
X	US (5,544,707 A (HOOPER et al.) 13 August 1996 (13.08.1996), see entire document, especially Fig. 4A as well as the other figures.	1-26, 30

☐ 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

Date of the actual completion of the international search	Date of mailing of the international search report
07 November 2006 (07.11.2006)	15 DEC 2006
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Zakiya W. Bates Telephone No. (571) 272-5150

Form PCT/ISA/210 (second sheet) (April 2005)

Continuation of B. FIELDS SEARCHED Item 3:
East: (hanger$1 same housing$1) and wellhead$1 and (produc$4 with (housing$1 bore$1)) and ((seal$3 pack$3) same (lock$3 or mov$6 with prevent$3))