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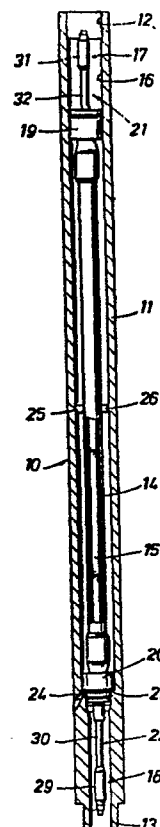
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(54) Apparatus for electrically interconnecting multi-sectional well tools.

57) In the representative embodiment of the new and improved apparatus disclosed herein, a multi-section MWD tool is cooperatively arranged to include a plurality of separable tool bodies respectively carrying a pressure-tight enclosure with one or more electrical means and adapted to be tandemly coupled together to assemble a particular MWD tool. Mating electrical connectors connected to the electrical means are cooperatively supported in the threaded end portions of each tool body by mounting means uniquely arranged for selective manual adjustment to ensure reliable electrical connection to the connector in the next-adjacent tool body as well as to prevent the male threaded end portion of the adjacent tool body from damaging the connector in the female threaded end portion of the first tool body as the two bodies are being coupled together. Pressure-responsive means are also provided for biasing the mated electrical connectors together with sufficient force to withstand the extreme impact forces imposed on the MWD tool bodies as a well is being drilled.





European Patent
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EUROPEAN SEARCH REPORT

0186599

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	DE-A-2 545 692 (DORNIER SYSTEM) * Claims 1-12; figure 2 *	1-5,	H 01 R 13/523
Y	---	8-10,14	E 21 B 47/12
Y	US-A-3 807 502 (ESSO) * Column 10, lines 44-50 *	8,14	E 21 B 17/042
X	US-A-3 989 330 (CULLEN et al.) * Abstract; column 2, lines 25-31,42-56; column 6, lines 1-6; column 8, lines 12-40; figure 1 *	1-5	E 21 B 17/02
Y	---	9,10,14	
A	US-A-3 542 126 (ELECTRIC WIRELINE) * Column 1, lines 69-73; column 4, lines 57-63; column 5, lines 1-7, 23-33 *	1,6,7,8 ,13,14, 15	

			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H 01 R E 21 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08-11-1988	Examiner HORAK A.L.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	