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54 Well tool.

57 The depth at which a string of pipe is stuck in a well bore-hole is determined using a tool suspended by a logging cable (22) and comprising a tool body (18) for running in the stuck well string, the body enclosing a first electromagnetic coil (50) connected with a suitable storage capacitor (38) and switch (36) for forming a strong magnetic field at a specified depth on the stuck well string. A second electromagnetic coil (48) is included in the tool and functions as a detector means. The detected signal is output to a suitable amplifier system and a recorder (34). Upon application of stress to the well string, the amplitude of magnetic marks above the stuck location will either be reduced or substantially erased; the electromagnetic marks below the stuck points will not be reduced, and the change in detected signals by the detector means indicates the location of the well string sticking and enables location of a free point in the string.

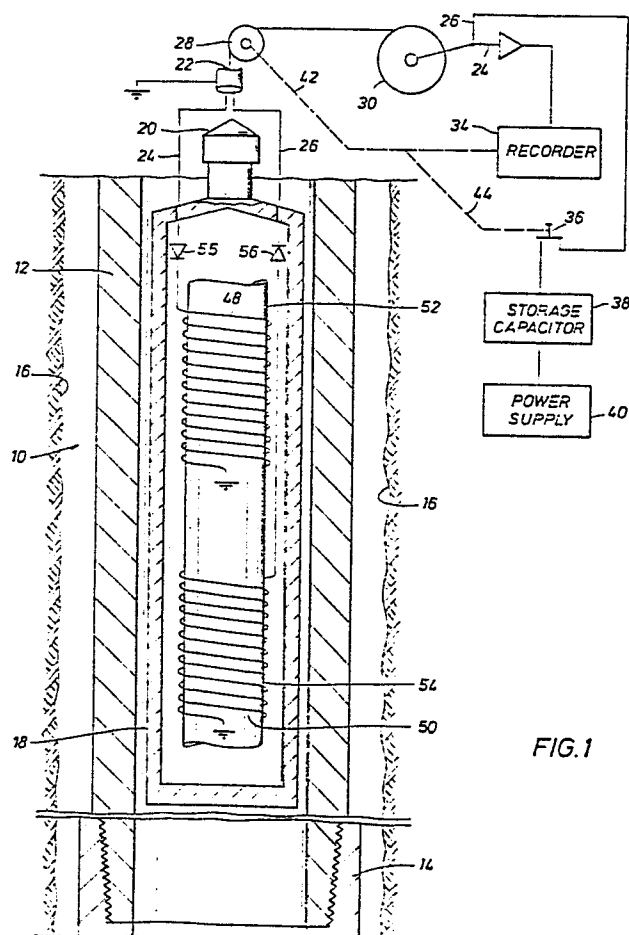


FIG.1



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EUROPEAN SEARCH REPORT

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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)
D,X	US-A-4 440 019 (MARSHALL) * Whole document *	10	E 21 B 47/09
D,Y		1	
A		2-9	
Y	EP-A-0 019 091 (SCHLUMBERGER LTD.) * Abstract; page 9, lines 3-14 *	1	
E,X	GB-A-2 158 245 (NL INDUSTRIES INC.) * Abstract; claims 1,5 *	1,10	
A	US-A-2 902 640 (FOSTER) * Whole document *	1,10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			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 26-05-1988	Examiner HEDEMANN, G. A.
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			

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