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EUROPEAN PATENT APPLICATION

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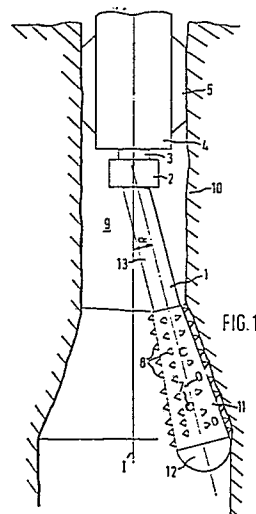
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54 **Device and method for underreaming a borehole.**

57 A borehole underreamer device comprises a downhole motor having a rotor part which carries by means of a pivot (2) an elongate clapper body (1) in which a series of abrasive teeth (8) are embedded. In use the device is pulled in upward direction through the borehole while the clapper body describes an orbital motion inside the borehole thereby forcing the teeth to penetrate into the surrounding side wall of the borehole so as to underream the hole.





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)
A	--	11	
A	CA-A-1 067 819 (GREEN) * Page 28, lines 19-28; claim 4 *	4,5,12	
A	--		
A	US-A-2 799 475 (HARLAN) * Column 3, line 73 - column 4, line 3 *	1,4,5,9,10	
A	--		
A	US-A-3 757 877 (LEATHERS) * Column 4, lines 30-40 *	1,4,5,9,10	
A	--		
A	DE-B- 1 484 393 (ALLARD) * Whole document *	1,2,6,10,11	
A	--		
A	US-A-2 823 901 (KAMMERER) * Figures 1,2; column 3, lines 3-40; column 4, lines 33-51 *	7	
A	--		
A	US-A-3 196 960 (KAMMERER) * Whole document *	7	
A	--		
A	DE-B-1 207 907 (SERVCO CO.) * Whole document *	7	
A	--		
A	GB-A- 579 871 (SHELL) * Claim 1 *	6,7	
The present search report has been drawn up for all claims ./. .			
Place of search		Date of completion of the search	Examiner
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>& : member of the same patent family, corresponding document</p>			



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)
A	FR-A-2 370 163 (JOHANSSON) * Page 10, lines 11-36 * -----	6,7	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-3,6,7,14-16: valve bypassing to condenser on high temperature/low flow coolant
2. Claims 1,4,5,14,17,18: clutch between axially aligned HP & LP shafts
3. Claims 1,8-13,14,19,20: condenser turned into evaporator of refrigeration subsystem

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,

namely claims: 2,3,6,7,15,16 and 1,14 partially