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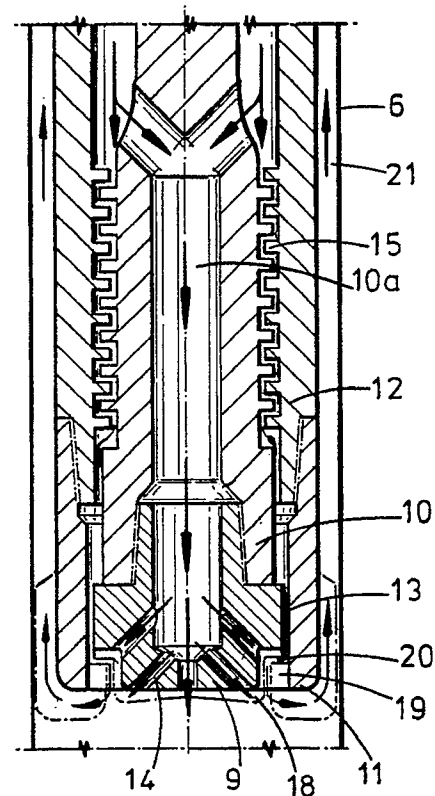
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11.09.91 Bulletin 91/37(71) Applicant: **WEIR PUMPS LIMITED**
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Killlearn, Glasgow, G63 9LG, Scotland(GB)(74) Representative: **McCallum, William Potter et al**
Cruikshank & Fairweather 19 Royal
Exchange Square
Glasgow G1 3AE Scotland(GB)(54) **Drill bit assembly with concentric rotatable cutting elements and method of drilling.**

(57) The invention relates to a drilling system and a drill bit assembly therefor, said drill bit assembly incorporating at least two concentric rotatable cutting elements (9,11 and 30,33) of which one cutting element (9,30) is adapted to be rotated at a rotational speed which is different from that of the other cutting element (11,33).

**FIG. 2****EP 0 400 921 A3**



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EUROPEAN SEARCH REPORT

Application Number

EP 90 30 5734

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.5)
X	WO-A-8 706 300 (DRILEX LTD) * Whole document *	1-3,6-10	E 21 B 4/20 E 21 B 4/02
Y	-----	4,5,11,12	E 21 B 10/26 E 21 B 21/08
Y	EP-A-0 155 540 (WITTE BOHRTECHNIK) * Whole document *	4,5,11,12	
A	-----		
A	US-A-4 267 893 (MANNON) * Abstract; figures *	1,3,10,11	
A,P	-----		
A,P	US-A-4 862 974 (WARREN) * Abstract; figures; column 2, pages 15-42 *	1,3,10,11	

The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5) E 21 B
Place of search The Hague		Date of completion of search 17 June 91	Examiner WEIAND T.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X: particularly relevant if taken alone</div> <div>Y: particularly relevant if combined with another document of the same category</div> <div>A: technological background</div> <div>O: non-written disclosure</div> <div>P: intermediate document</div> <div>T: theory or principle underlying the invention</div> <div>E: earlier patent document, but published on, or after the filing date</div> <div>D: document cited in the application</div> <div>L: document cited for other reasons</div> <div>&: member of the same patent family, corresponding document</div>			