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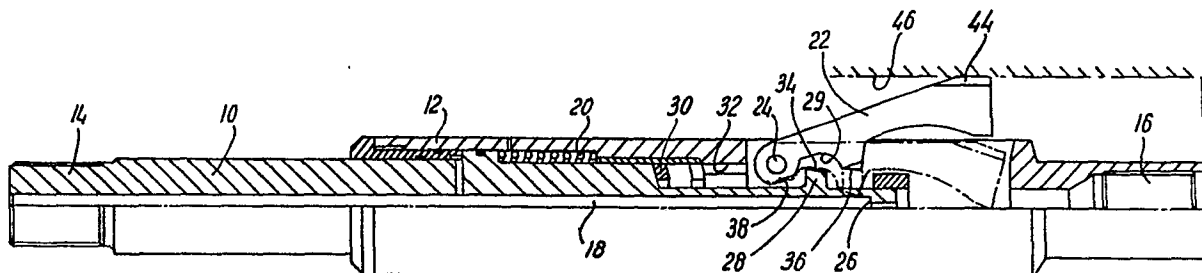
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03.01.90 Bulletin 90/01(71) Applicant: **TRI-State Oil Tool (UK) a division of
Baker International Limited
Kirkhill Road Kirkhill Industrial Estate
Dyce Aberdeen AB2 0ES Scotland(GB)**(72) Inventor: **Doig, Thomas
24 Elmbank Terrace Aberdeen
Scotland(GB)**(74) Representative: **Pacitti, Pierpaolo A.M.E. et al
Murgitroyd and Company Mitchell House 333
Bath Street
Glasgow G2 4ER Scotland(GB)**(54) **Downhole cutting tool.**

(57) The tool, for example an underreamer for de-scaling a casing (46), has an upper body (10) telescoped within a lower body (12) on which are pivoted operating arms (22). The arms (22) are deployed from a retracted to an extended position by the hydraulic pressure of drilling mud pumped through a through-bore (18) against a shoulder (26) causing the upper body (10) to move within the lower body (12), which movement pivots the arm (22) via camming surfaces (28,29).

In the fully extended position, an outer surface (44) of the arm (22) acts as a locating pad, and the arm is mechanically locked by mating surfaces (34,36).

**EP 0 298 663 A3****FIG. 1**

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EUROPEAN SEARCH REPORT

Application Number

EP 88 30 5962

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	US-A-4 565 252 (CAMPBELL et al.) * Column 6, line 33 - column 7, line 42; claim 1 *	1-3	E 21 B 37/02 E 21 B 37/04 E 21 B 10/32
Y		4,5	
A		6-8	

X	US-A-2 756 968 (EMANUEL et al.) * Column 2, lines 34-67; column 3, lines 61-75 *	1,2	

Y	US-A-2 823 901 (KAMMERER) * Column 3, lines 9-25 *	4,5	
A		1,2	

A	US-A-3 196 960 (KAMMERER) -----		
			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 06-10-1989	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	