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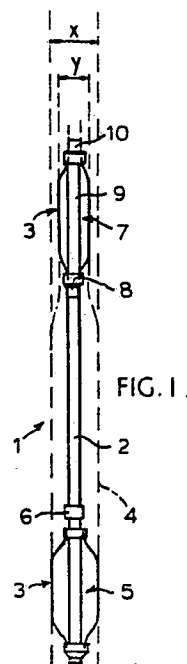
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54 **Apparatus for cutting a drill collar.**

57 Apparatus 1 for cutting a drill collar of a well casing, comprising a housing 2 for an explosive charge to be located in a well casing adjacent a drill collar and means 3 to centralize the apparatus 1 in a well casing 4 over varying diameters thereof. Variations in casing diameter are shown at x and y.





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EUROPEAN SEARCH REPORT

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EP 86 30 5066

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-2 761 384 (W. SWEETMAN) * Column 1, lines 15-18; column 1, line 66 - column 2, line 18; column 2, lines 48-52; column 4, lines 3-20,39-44; column 4, line 67 - column 5, line 22; figures 8,10 *	1,2	E 21 B 29/02 E 21 B 17/10
Y	---	3,4	
A	---	14	
Y	EP-A-0 125 993 (SCHLUMBERGER) * Page 1, lines 4-21; page 5, lines 26-35; page 7, lines 8-19; figures 1,2 *	3,4	
A	---	5-7,9	
A	EP-A-0 102 274 (SCHLUMBERGER) * Page 1, paragraphs 1,2; page 6, paragraph 2; figure 1 *	2,4,5,7,9	
A	US-A-3 568 053 (J. KILPATRICK et al.) * Column 2, lines 23-54; figure 2 *	2,3,9,10	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	US-A-3 196 951 (D. SAURENMAN) * Column 1, line 43 - column 2, line 18; figures 1,2 *	11	E 21 B
A	US-A-3 192 857 (G. CHRISTOPHER) * Column 2, line 51 - column 3, line 21; figure 1 *	1,12,13,15	
A	US-A-4 352 397 (G. CHRISTOPHER) * Column 3, line 38 - column 4, line 14; column 4, lines 58-65; column 5, line 43 - column 6, line 6; figure 1 *	1,15	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03-05-1989	Examiner RAMPELMANN K.
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			