(11) **EP 0 760 417 A3** 

(12)

## **EUROPEAN PATENT APPLICATION**

- (88) Date of publication A3: 10.12.1997 Bulletin 1997/50
  - 10.12.1997 Bulletin 1997/50 E21B 23/04
- (43) Date of publication A2: 05.03.1997 Bulletin 1997/10
- (21) Application number: 96305964.7
- (22) Date of filing: 15.08.1996
- (84) Designated Contracting States: **DE DK ES FR GB GR IT NL**
- (30) Priority: 18.08.1995 GB 9516917
- (71) Applicants:
  - PETROLEUM ENGINEERING SERVICES LIMITED
    - Dyce, Aberdeen AB2 OGP (GB)
  - The Red Baron (Oil Tools Rental) Limited Altens Aberdeen AB1 4PG (GB)

- (72) Inventors:
  - Mills, David Henry Aberdeen AB22 8LY (GB)
  - Reid, Michael Adam Aberdeen, AB1 8TR (GB)
  - Kaminski, Leonard Anthony Inverurie, Aberdeenshire AB51 4RN (GB)

(51) Int Cl.6: **E21B 23/02**, E21B 23/00,

(74) Representative: Murgitroyd, Ian G. et al Murgitroyd and Company373 Scotland StreetGlasgow G5 8QA (GB)

## (54) Method of and apparatus for assembling a tool string

(57) A method of and apparatus for assembling a tool string includes a body member (12) and a coupling mechanism (6, 7, 8, 9) on the body member (12). The coupling mechanism (6, 7, 8, 9) releasably secures the body member (12) to an internal profile (3) in the borehole (1). The apparatus also includes a support mech-

anism (15, 19, 20, 21, 22, 23) on the body member (12). The support mechanism (15, 19, 20, 21, 22, 23) is movable between a support position (50) in which the tool string or a portion (24) of the tool string is supported on the body member (12), and a release position (52) in which the tool string or portion (24) is released from the body member (12).

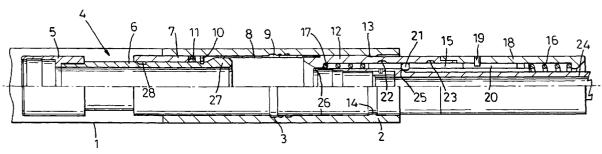


Fig. 1



## **EUROPEAN SEARCH REPORT**

Application Number EP 96 30 5964

Category	Citation of document with indication, where appl of relevant passages	ropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	WO 92 09784 A (PHOENIX PETROLEU * page 6, paragraph 4 - page 8,			E21B23/02 E21B23/00
Α			10	E21B23/04
Х	GB 2 281 088 A (PHOENIX PETROLE SERVICES) * page 12, paragraph 2 - page 1 paragraph 1 *		1,3,9	
Х	us 4 407 364 A (JOHNSTON) * column 8, line 6 - line 63 *		1,3	
Х	US 4 844 160 A (GAZDA) * column 4, line 13 - column 5, 		1-3	
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)
		and the second s		
	The present search report has been drawn up for all	claims		
		npletion of the search tober 1997	Ram	Examiner  pelmann, K
CATEGORY OF CITED DOCUMENTS  X particularly relevant if taken alone Y particularly relevant if combined with another document of the same category		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		
	nological background -written disclosure	& : member of the sar		