

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

0 250 016
A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 87200924.6

(51) Int. Cl.4: E21B 33/14 , E21B 17/14

(22) Date of filing: 18.05.87

(30) Priority: 16.06.86 GB 8614632

(43) Date of publication of application:
23.12.87 Bulletin 87/52(84) Designated Contracting States:
DE FR GB NL(88) Date of deferred publication of the search report:
08.03.89 Bulletin 89/10

(71) Applicant: **SHELL INTERNATIONALE
RESEARCH MAATSCHAPPIJ B.V.**
Carel van Bylandtlaan 30
NL-2596 HR Den Haag(NL)

(72) Inventor: **Van Beelen, Coenradus Gerardus**
Carel van Bylandtlaan 30
NL-2596 HR Den Haag(NL)

(74) Representative: **Aalbers, Onno et al**
P.O. Box 302
NL-2501 CH The Hague(NL)

(54) Well cementing tool.

(57) A tool for cementing a casing or other well pipe in a well comprises a substantially tubular collar and a plurality of port openings passing through the wall of said collar, which openings are oriented at such an inclined position relative to the collar that during injection of a cement slurry from the interior of the collar the flow of cement slurry obtains a swirling motion through said annular space.

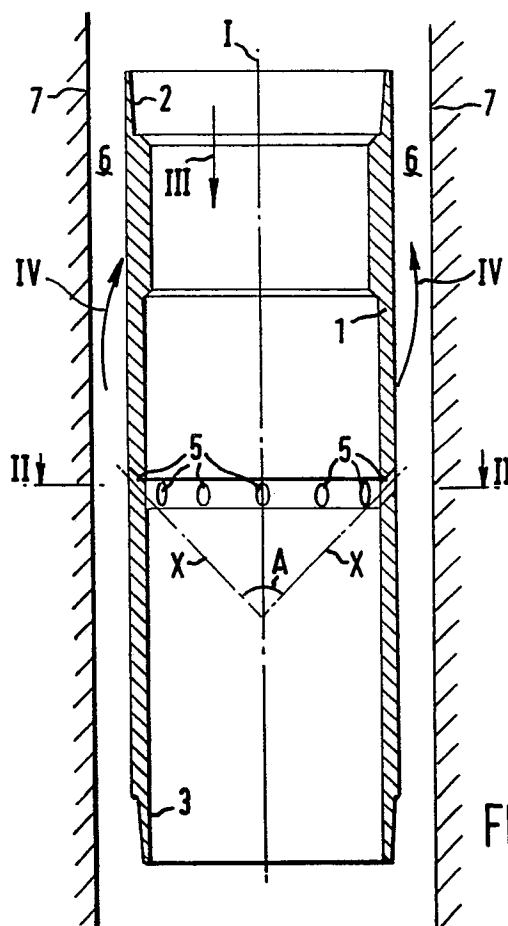


FIG.1

EP 0 250 016 A3



EP 87 20 0924

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-3 593 786 (LEWIS) * Column 1, lines 15-29; column 2, lines 50-70; claim 2 * ---	1-7	E 21 B 33/14 E 21 B 17/14
A	US-A-1 715 767 (LE FLORE) * Whole document * ---	1	
A	US-A-2 257 765 (SCARAMUCCI) * Whole document * ---	1	
A	US-A-2 703 145 (HILDEBRANDT) -----	1	
			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 08-12-1988	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	