(13) Europäisches European Pa Office europe		(1) Publication number:	0 147 315 A3
10	EUROPEAN PAT	ENT APPLICATION	
 (2) Application number: 8440266 (22) Date of filing: 20.12.84 	9.0	⑤ Int. Cl.4: H 01 R 13	8/523
 (3) Priority: 27.12.83 US 565794 27.12.83 US 565795 (4) Date of publication of applicati 03.07.85 Bulletin 85/27 (8) Date of deferred publication of (8) Designated Contracting States DE FR GB IT NL 	on: search report: 01.04.87	 (7) Applicant: Schlumberge 277 Park Avenue New York, N.Y. 10172(US) (8) Designated Contracting S DE GB NL (7) Applicant: SOCIETE DE F SCHLUMBERGER 42, rue Saint-Dominique F-75340 Paris Cedex 07(Ff (8) Designated Contracting S FR IT (7) Inventor: Pottier, Alain P 4039 Underwood Bouleve Houston Texas 77025(US) (7) Inventor: Walulik, James 1014 Ogilvie Houston Texas 77017(US) (72) Inventor: Simmons, Ral 5208 Cunningham Houston Texas 77581(US) (74) Representative: Chareyn Schlumberger Limited Sci des Etats Unis B.P. 121 F-92124 Montrouge Céde 	ervice Brevets c/o Giers 12, place

(54) Wet electrical connector.

A3

IJ

31

147

0

(57) Connector assembly for use in fluid medium comprising a male connector with a cylindrical pin (10) with several axially spaced contact elements (11), and a female connector with a tubular housing (40) and axially spaced annular contacts (61, 62) secured inside the housing (40). Seals (70, 91) with a flexible central portion are alternated with the contacts and with the latter define a bore to accommodate the pin. A chamber (121) filled with dielectric liquid is defined within the housing (40) as a rear extension of the bore, the entry of which is closed to external fluid by a sealing member. A free space (74) is left around the flexible portion of each tubular seal, and each of said spaces (74) communicates with the aforementioned ПР chamber (121). Means are provided by which the pressure

increases in the chamber (121) when the pin (10) is inserted. The pressure rise in the spaces (74) around the seals (70) increases the pressure force of the seals against the pin (10).



.



EUROPEAN SEARCH REPORT

0147315 Application number

EP 84 40 2669

DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication, where appropriate,				evant claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)			
Calegois		·							
x	GB-A-2 070 348 (FRANCAIS DU PETRO * figures 1-4D; p page 2, line 112	DLE) Dage l, line	e 38 -						13/523 17/02
A	US-A-4 142 770 (* figures 1-3; cc - column 8, line	olumn 2, lin	al.) ne 43	1-	14				
						TECHNICAL FIELDS SEARCHED (int. Ci 4)			
									13/523 17/02
The present search report has been drawn up for all claims									
Place of search Date of completion of t BERLIN 15-11-198		n of the search 1986		HAH	N G	Exa	miner		
CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention S CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention S L: particularly relevant if taken alone E: earlier patent document, but published on, or after the filing date S L: document of the same category D: document cited in the application A: technological background L: document cited for other reasons A: technological background E: member of the same patent family, corresponding document									