

Europäisches Patentamt

European Patent Office

Office européen des brevets



(1) Publication number:

0 428 026 A3

(12)

## **EUROPEAN PATENT APPLICATION**

(21) Application number: 90121045.0

(51) Int. Cl.5: **H01Q** 13/20

2 Date of filing: 02.11.90

Priority: 16.11.89 US 437539

Date of publication of application: 22.05.91 Bulletin 91/21

Designated Contracting States:

DE FR GB

Date of deferred publication of the search report: 17.07.91 Bulletin 91/29

71 Applicant: ANDREW A.G. Postfach 51, Bachliwis 2B

CH-8184 Bachenbulach, Zürich(CH)

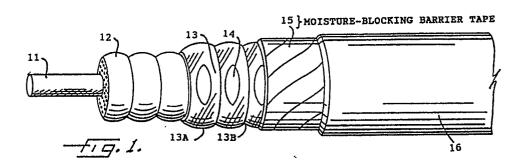
2 Inventor: Rampalli, Sitaram 14441 Valley View Drive Orland Park, Illinois 60462(US) Inventor: Nudd, Hugh R. 19940 Mokena Street Mokena, Illinois 60448(US)

Representative: Patentanwälte Grünecker, Kinkeldey, Stockmair & Partner Maximilianstrasse 58 W-8000 München 22(DE)

- (A) Radiating coaxial cable with improved water-blocking characteristics.
- The provided with improved water-blocking characteristics by provision of a barrier tape between an apertured, corrugated outer conductor and the external jacket surrounding the conductor. The barrier tape is wrapped around the outer conductor is such a away as to completely cover the radiating apertures disposed thereupon. The barrier tape is composed of a hygroscopic material which is highly water absorbent and swells up in contact with any water penetrating the cable so as to form a barrier around the aperture

conductor, thereby preventing ingress of water into the apertures of the conductor. The barrier tape is particularly effective in restricting longitudinal migration of water by retaining water that contacts the tape in a high localized fashion. The improved radiating cable construction is particularly adapted to be used in conjunction with a layer of fire-retardant tape disposed over the water-blocking tape to realize a cable which is highly resistant to both water and fire and yet is economical and easy to manufacture and use.







## EUROPEAN SEARCH REPORT

EP 90 12 1045

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category		h indication, where appropriate, vant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)
Y,D	EP-A-0 308 111 (ANDREV * abstract; figures 1, 2 & US		1-	-10	H 01 Q 13/20 H 01 B 7/28
Υ	EP-A-0 024 631 (DOW CH * page 12, lines 9 - 22 ** cla		1.	-10	
Α	EP-A-0 246 726 (PIRELLI * page 5, line 42 - page 6, li		1.	-3,6-8	
Α	FR-A-2 401 532 (BICC) * claims 1-8; figure * — -		1,	5,6,10	
					TECHNICAL FIELDS SEARCHED (Int. Cl.5)  H 01 Q H 01 B
					-
	The present search report has been drawn up for all claims				
Place of search Date of completion of			search		Examiner
	The Hague 23 May 91			ANGRABEIT F.F.K.	
Y: A: O: P:	CATEGORY OF CITED DOCI particularly relevant if taken alone particularly relevant if combined wit document of the same catagory technological background non-written disclosure intermediate document theory or principle underlying the in	h another	the filing D: documen L: documen	date t cited in to t cited for the same	ment, but published on, or after the application other reasons a patent family, corresponding