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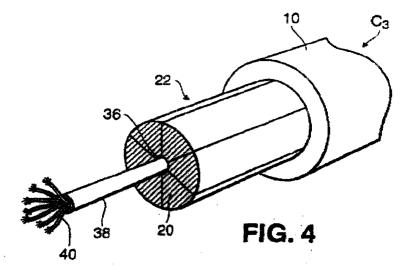
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(54) Composite reinforced electrical transmission conductor

(57) A composite reinforced electrical transmission conductor cable primarily designed for transmission of electrical signals, such as data signals, telephone signals of any frequency and electrical power of essentially any voltage. A fiber optic cable may also be carried by the core in a preferred embodiment. A splicing arrangement for securing the ends of the cable together is also provided. The cable is comprised of a reinforced plastic composite component which serves as a load bearing component and an electrically conductive component

which serves for transmission of the electrical signals carried by the cable. In a preferred embodiment, the cable is comprised of a reinforced plastic composite outer load carrying sheath along with an inner highly electrically conductive core. In this way, the sheath provides the necessary strength and the inner core provides for transmission of the electrical signals. In still further embodiments, strips of reinforcd plastic composite can be embedded in an electrically coductive cylindrically shaped cable material.





EUROPEAN SEARCH REPORT

Application Number EP 01 11 5164

Category	Citation of document with indica of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
X	EP 0 814 355 A (LUCENT 29 December 1997 (1997		1	H01B7/18 H01B9/00	
A	* column 3, line 45 - figures 1,2 *		2-13	1101237,00	
X	EP 0 550 784 A (FURUKA 14 July 1993 (1993-07-		1		
4	* page 3, line 21 - pa figures 1-5 *		2-13		
Ą	EP 0 141 931 A (AEG TE 22 May 1985 (1985-05-2 * page 4, paragraph 1 1; claims 1-13; figure	2) - page 5, paragraph	1-13		
Ą	US 3 973 385 A (ROE NO 10 August 1976 (1976-0 * column 2, line 6 - c figures 1-7 *	1-13			
				TECHNICAL FIELDS SEARCHED (Int.CI.7)	
				H01B	
	The present search report has been	drawn up for all claims			
	Place of search	Date of completion of the search		Examiner	
	THE HAGUE	15 November 2002	Dem	older, J	
X : pari Y : pari doc	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ument of the same category inological background	T : theory or principle E : earlier patent doct after the filing date D : document cited in L : document cited for	ument, but puble the application other reasons	ished on, or	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 11 5164

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-11-2002

	Patent document cited in search report	rt	Publication date		Patent fam member(s		Publication date
EP	0814355	A	29-12-1997	US EP JP	5822484 0814355 10123383	A1	13-10-1998 29-12-1997 15-05-1998
EP	0550784	A	14-07-1993	CA US EP	2058412 5198621 0550784	A	01-07-1993 30-03-1993 14-07-1993
EP	0141931	A	22-05-1985	DE AT DE DE EP FI	3330096 44187 3348154 3478773 0141931 843268 872512	T C2 D1 A2 A ,B,	21-03-1985 15-07-1989 24-03-1988 27-07-1989 22-05-1985 21-02-1985 04-06-1987
US	3973385	A	10-08-1976	US US	4059951 4085183		29-11-1977 18-04-1978

FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82