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(54) **A coaxial cable and core and a method for manufacturing the same**

(57) The present invention comprises an electrical cable core with one or more of various electrical characteristics (such as the electrostatic capacity, characteristic impedance, and propagation delay time) controlled (e.g., made uniform) in the lengthwise direction of the cable, and a method for manufacturing the same. The invention further comprises a coaxial cable in which said core is used. This cable core is achieved by means

of a computer that computes the difference in the event that a difference is produced between a specific predetermined electrostatic capacity per unit of length for the core and the measured value for electrostatic capacity per unit of length of the cable. If a difference is detected, extrusion apparatus applying a second dielectric layer is controlled by the control apparatus so that the thickness of the dielectric layer is modified to deliver the desired electrical properties.

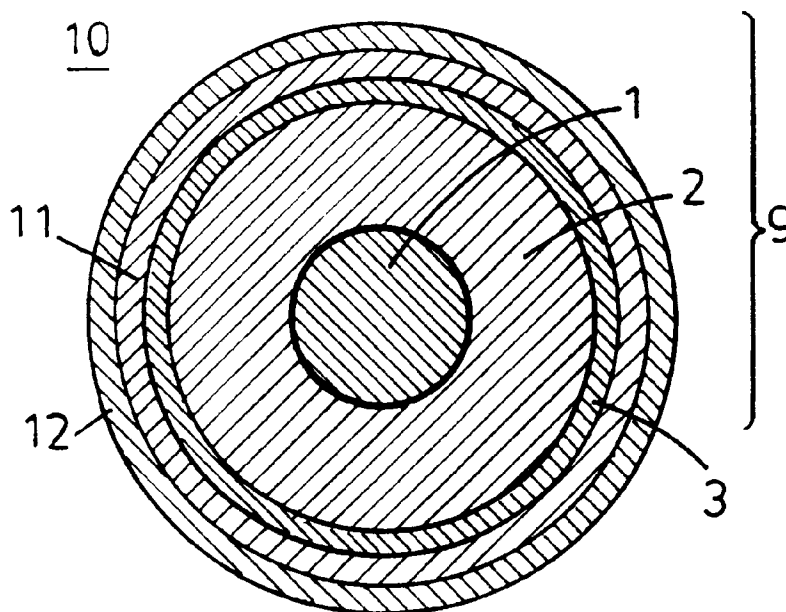


FIG. 2

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EUROPEAN SEARCH REPORT

Application Number
EP 94 30 8821

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.6)
X	US-A-3 635 620 (BROWN) 18 January 1972	1,4, 16-21	H01B11/18 H01B13/14
Y	* abstract, column 2, line 56-column 6, line 35; figures 2-4 *	2,3,5-15	
Y	--- US-A-5 210 377 (KENNEDY) 11 May 1993 * column 1, line 52 - column 2, line 5; figure 1 *	2,3,5-15	
X	--- DE-A-35 15 574 (NOKIA) 7 November 1985 * claims 1,3 *	1,2,5-9	
X	--- US-A-4 174 236 (DOUGHERTY) 13 November 1979 * figure 8 *	1,4	

			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 2 July 1996	Examiner Hey, S
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 I : 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			

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