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11 Publication number: **0 582 013 A3**

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EUROPEAN PATENT APPLICATION

21 Application number: **92401998.7**

51 Int. Cl.⁵: **H01B 13/00, H01B 11/18**

22 Date of filing: **09.07.92**

30 Priority: **09.07.92 US 727589**

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43 Date of publication of application:
09.02.94 Bulletin 94/06

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84 Designated Contracting States:
DE FR GB IT NL SE

88 Date of deferred publication of the search report:
13.04.94 Bulletin 94/15

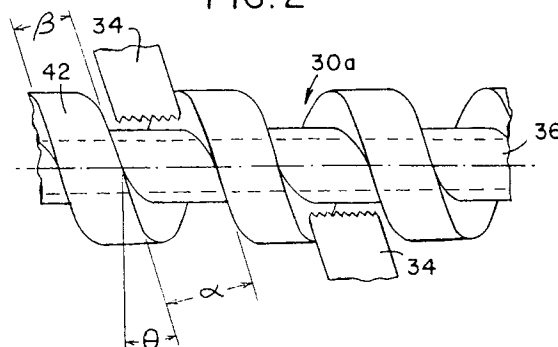
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54 Method for making a flexible coaxial cable and resultant cable.

57 An improved method for making a flexible coaxial cable having an inner conductor (36) to which a dielectric material is secured to form a dielectric core (30) for the coaxial cable (38), and a flexible outer conductor (50) such as one formed from a strip helically wound conductor (58), employs a solid dielectric starting material (32), such as a spline dielectric or a cylindrical dielectric or an expanded dielectric, which is controllably cut, such as by saw blades (34), using a desired cutting angle (θ) and blade width (α), in order to cut away a predetermined amount of the solid dielectric starting material (32) to provide a shaped dielectric core (30), such as a spiral or helix (30a, 30b), from the solid dielectric starting material (32). The resulting core (30), such as single or double helix (30a, 30b), which has a predetermined pitch which provides a desired predetermined velocity of propagation and impedance for the coaxial cable (38), is inserted into the convoluted outer conductor (50) to produce a fast cable

(38) without any locking of the core (30) to the outer conductor (50).

FIG. 2



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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.5)
A	US-A-2 599 857 (MILDNER) * claim 1; figure 1 * ---	1,6,9, 19,21, 26,27,29	H01B13/00 H01B11/18
A	CH-A-438 695 (LITTLE) * column 3, line 61 - column 6, line 3; figures 1-3 * ---	1,6,9, 19,21, 26,27,29	
A	DE-A-29 05 387 (KABELWERK OBERSPREE) * claim 1 * ---	1	
A	GB-A-616 303 (TELEGRAPH CONSTRUCTION AND MAINTENANCE) * claim 1; figures 3,4 * ---	1,4,10, 24	
A	US-A-4 758 685 (POTE ET AL.) * column 3, line 50 - column 4, line 16; figures 8-10 * -----	1,4,10, 12,17,24	TECHNICAL FIELDS SEARCHED (Int.Cl.5) H01B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 February 1994	Examiner Demolder, J
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	