

Publication

**EP 0582013 A3 19940413**

Application

**EP 92401998 A 19920709**

Priority

US 72758991 A 19910709

Abstract (en)

[origin: EP0582013A2] 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 (  $\theta$  ) and blade width (  $\alpha$  ), 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). <IMAGE>

IPC 1-7

**H01B 13/00**; **H01B 11/18**

IPC 8 full level

**H01B 13/20** (2006.01)

CPC (source: EP)

**H01B 13/206** (2013.01); **H01B 13/208** (2013.01)

Citation (search report)

- [A] US 2599857 A 19520610 - CHARLES MILDNER RAYMOND
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- [A] DE 2905387 A1 19790906 - OBERSPREE KABELWERKE VEB K
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Designated contracting state (EPC)

DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0582013 A2 19940209**; **EP 0582013 A3 19940413**; **EP 0582013 B1 19990512**; DE 69229172 D1 19990617

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