

Title (en)

RADIATING COAXIAL CABLE WITH IMPROVED WATER-BLOCKING CHARACTERISTICS

Publication

**EP 0428026 A3 19910717 (EN)**

Application

**EP 90121045 A 19901102**

Priority

US 43753989 A 19891116

Abstract (en)

[origin: EP0428026A2] A radiating cable of the foam dielectric type is 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 way 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.

IPC 1-7

**H01Q 13/20**

IPC 8 full level

**H01B 11/18** (2006.01); **H01P 3/06** (2006.01); **H01Q 13/20** (2006.01); **H01Q 13/22** (2006.01)

CPC (source: EP)

**H01Q 13/203** (2013.01)

Citation (search report)

- [YD] EP 0308111 A1 19890322 - ANDREW CORP [US]
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- [A] FR 2401532 A1 19790323 - BICC LTD [GB]

Cited by

EP0778634A1; FR2742259A1; US11309102B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0428026 A2 19910522**; **EP 0428026 A3 19910717**; AU 629985 B2 19921015; AU 6366690 A 19910523; JP 2960958 B2 19991012; JP H03181209 A 19910807

DOCDB simple family (application)

**EP 90121045 A 19901102**; AU 6366690 A 19901002; JP 31121490 A 19901116