

Title (en)

Moisture migration proof unpressurized radio frequency transmission system and method

Title (de)

Gegen kriechende Feuchtigkeit abgesichertes druckloses Radiofrequenzen übertragendes System und Methode

Title (fr)

Méthode et système de transmission de fréquences radio non pressurisé empêchant la progression de l'humidité

Publication

**EP 0768736 A2 19970416 (EN)**

Application

**EP 96114695 A 19960913**

Priority

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Abstract (en)

A water migration proof radio frequency transmission system and method is disclosed. The system comprises an unpressurized foam dielectric coaxial cable having a center conductor surrounded by a foam dielectric which is surrounded by an outer conductor. The system also comprises a connector for connecting the center and outer conductors of the cable to the center and outer conductors of an antenna. The connector includes sealing means for preventing moisture migration into the cable from the center conductor of the antenna. In one embodiment the connector has an insulative center conductor contact bead with an O-ring positioned on its outer periphery and with a bore in the bead press fit to an inner conductor contact which in turn connects to the coaxial cable center conductor. In another embodiment the bead includes a second O-ring within the bore for moisture sealing engagement with the inner conductor. The method uses such a connector within a dielectric foam coaxial cable to form a moisture proof radio frequency transmission system. <IMAGE>

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**H01R 17/12**; **H01R 13/52**

IPC 8 full level

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CPC (source: EP)

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Cited by

CN106878838A; CN100399630C; CN102148445A; CN105576592A; EP1160932A1; FR2809821A1; US6571606B2; US7537482B2; WO2012099756A1; WO2009029210A1

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