Title (en)

FLOATING SEGMENTED SHIELD CABLE ASSEMBLY

Title (de)

ABGESCHIRMTE KABELANORDNUNG MIT BEWEGLICHEN SEGMENTEN

Title (fr)

ENSEMBLE CABLE A BLINDAGE SEGMENTE FLOTTANT

Publication

EP 2311051 A4 20131106 (EN)

Application

EP 09793731 A 20090508

Priority

- CA 2009000597 W 20090508
- CA 2636936 A 20080707

Abstract (en)

[origin: WO2010003215A1] Signals in an RF field, such as that of an MRI system, are communicated through an inner conductor having an outer shield with a dielectric material therebetween and an outer cable jacket. Current in the shield caused by the RF field from the transmit body coil is reduced by providing a second dielectric material around the shield conductor and a plurality of segmented shield conductor portions formed of non-magnetic braid or wrapped non-magnetic foil tape outside the second dielectric material and inside the jacket at spaced positions along the cable, with the portions being electrically separated from each other and from the shield so that the segmented shield conductor portions act to shield the outer shield conductor to reduce the generation of current thereon while the electrical separation of the segmented shield conductor portions each from the others prevents the generation of a current along the portions.

IPC 8 full level

H01B 11/18 (2006.01); **A61B 5/0402** (2006.01); **A61B 5/0476** (2006.01); **A61B 5/055** (2006.01); **G01R 33/28** (2006.01); **G01R 33/34** (2006.01); **G01R 33/36** (2006.01); **H01B 7/17** (2006.01); **H04B 3/02** (2006.01)

CPC (source: EP US)

G01R 33/3685 (2013.01 - EP); **H01B 11/1813** (2013.01 - EP); **H01B 11/1891** (2013.01 - EP); A61B 5/055 (2013.01 - EP US); A61B 5/318 (2021.01 - EP); A61B 5/369 (2021.01 - EP); A61B 2562/222 (2013.01 - EP); G01R 33/34007 (2013.01 - EP)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2010003215A1

Designated contracting state (EPC)

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