

Title (en)

Flat cable shield ground connection

Title (de)

Masseverbindung für Flachkabelabschirmung.

Title (fr)

Connexion de masse pour le blindage d'un câble plat.

Publication

EP 1727161 A1 20061129 (EN)

Application

EP 05104333 A 20050523

Priority

EP 05104333 A 20050523

Abstract (en)

A shielded flat cable (10) comprises a ribbon cable (16) having at least one layer of a plurality of adjacent individual insulated wires (20), an electrically conductive shielding layer (14) surrounding the ribbon cable (16), and a ground cable (30) having a conductor (32) electrically connected to the shielding layer (14). At least two electrically conductive layers (46,48,50) of an electrically conductive adhesive tape (24) are adhered to at least a portion of the shielding layer (14), the adhesive tape (24) having an electrically conductive backing (26) and an electrically conductive adhesive (28) on at least one side of the backing (26), thereby forming a superimposed layer arrangement (52) comprising the shielding layer (14) and the at least two adhesive tape layers (46,48,50). The ground cable (30) is formed so as to comprise at least a first and a second portion (40,42), at least one of them at least partially being free of an insulation jacket (36), and the second portion (42) being folded back with respect to the first portion (40). For making electrical contact with the shielding layer (14) and for providing strain relief, the first and second portions (40,42) of the ground cable (30) are arranged between layers of different pairs of adjacent layers (14,46,48,50) of the superimposed layer arrangement (52).

IPC 8 full level

H01B 7/08 (2006.01); **H01B 11/10** (2006.01); **H01R 4/04** (2006.01)

CPC (source: EP KR)

H01B 7/08 (2013.01 - KR); **H01B 7/0861** (2013.01 - EP); **H01B 11/1091** (2013.01 - EP); **H01R 4/04** (2013.01 - EP); **H01R 12/596** (2013.01 - EP); **H01R 9/0509** (2013.01 - EP)

Citation (search report)

- [A] US 4737598 A 19880412 - O'CONNOR LAWRENCE [CA]
- [A] US 2002170729 A1 20021121 - MURAKAMI KAZUHIRO [JP], et al
- [A] US 2001045296 A1 20011129 - BAILEY GEORGE R [US]

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 05104333 A 20050523; BR PI0610318 A 20060523; CA 2609658 A 20060523; CN 200680026766 A 20060523; IL 18755407 A 20071122; JP 2008513630 A 20060523; KR 20077028156 A 20071203; MX 2007014649 A 20060523; US 2006019950 W 20060523