

Title (en)

Conductive fabric and method for manufacturing same

Title (de)

Leitfähiges Textil sowie Verfahren zu seiner Herstellung

Title (fr)

Tissu conducteur et procédé de fabrication

Publication

EP 2743386 A1 20140618 (EN)

Application

EP 14159665 A 20110113

Priority

- KR 20100004164 A 20100114
- EP 11733073 A 20110113
- KR 2011000232 W 20110113

Abstract (en)

The present invention relates to an electrically conductive fabric, and a manufacturing method and an apparatus thereof, and more specifically to an electrically conductive fabric, and a manufacturing method and an apparatus thereof, wherein part of electrically conductive wire woven together into fabric is selectively exposed to the outside of the fabric to perform the tying of electrically conductive wires and the connection of various elements and modules quickly and conveniently, so that workability and productivity can be improved. The electrically conductive fabric comprises multiple strands of warps (11) arranged lengthwise, multiple strands of wefts (12) knitted with the warps, and at least one strand of electrically conductive wire (13) arranged lengthwise and knitted in a planar shape, wherein an electrically conductive wire knitting section in which the electrically conductive wire is knitted to the warp and/or weft to be bound monolithically to the electrically conductive fabric and an electrically conductive wire exposing section in which the electrically conductive wire is not knitted to the warp and/or weft but is exposed to the outside of the electrically conductive fabric by a predetermined length are repetitively formed.

IPC 8 full level

D02G 3/36 (2006.01); **D03D 1/00** (2006.01); **D03D 13/00** (2006.01); **D03D 15/00** (2006.01); **D03D 15/02** (2006.01); **D03D 15/08** (2006.01); **D03D 15/56** (2021.01); **D04B 21/14** (2006.01)

CPC (source: EP KR US)

D02G 3/38 (2013.01 - KR); **D03D 1/00** (2013.01 - US); **D03D 1/0088** (2013.01 - EP KR US); **D03D 13/00** (2013.01 - KR); **D03D 13/004** (2013.01 - EP US); **D03D 15/00** (2013.01 - EP US); **D03D 15/25** (2021.01 - EP US); **D03D 15/47** (2021.01 - EP US); **D03D 15/533** (2021.01 - KR); **D03D 15/56** (2021.01 - KR); **D03D 27/06** (2013.01 - US); **D04B 21/14** (2013.01 - EP US); **D10B 2101/20** (2013.01 - EP US); **D10B 2401/16** (2013.01 - EP KR US); **D10B 2401/18** (2013.01 - KR); **Y10T 442/3008** (2015.04 - EP US); **Y10T 442/3073** (2015.04 - EP US); **Y10T 442/3179** (2015.04 - EP US); **Y10T 442/3195** (2015.04 - EP US)

Citation (search report)

- [IY] WO 2008129118 A1 20081030 - NEULE APU OY [FI], et al
- [XA] DE 10342285 A1 20050210 - TITV GREIZ [DE]
- [X] WO 0118296 A1 20010315 - LIBERTY FABRICS INC [US]
- [Y] WO 2009145536 A2 20091203 - SILVERAY CO LTD [KR], et al & EP 2314744 A2 20110427 - SILVERAY CO LTD [KR]
- [Y] DE 102006036405 A1 20070809 - ZIMMERMANN GMBH & CO KG W [DE]
- [YA] DE 20320479 U1 20041104 - SYNTEEN & LUECKENHAUS TEXTIL T [DE], et al
- [A] EP 0610490 A1 19940817 - BELLON CATHERINE [FR], et al
- [A] US 6341504 B1 20020129 - ISTOOK CYNTHIA L [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2524983 A2 20121121; **EP 2524983 A4 20130918**; CN 102713037 A 20121003; CN 102713037 B 20150121; EP 2743386 A1 20140618; EP 2743386 B1 20181107; JP 2013517389 A 20130516; JP 5711267 B2 20150430; KR 101325817 B1 20131105; KR 20110083435 A 20110720; US 2013102217 A1 20130425; WO 2011087286 A2 20110721; WO 2011087286 A3 20111229

DOCDB simple family (application)

EP 11733073 A 20110113; CN 201180006133 A 20110113; EP 14159665 A 20110113; JP 2012548886 A 20110113; KR 20100004164 A 20100114; KR 2011000232 W 20110113; US 201113521025 A 20110113