

Title (en)

CONDUCTIVE FABRIC, METHOD OF MANUFACTURING CONDUCTIVE FABRIC AND APPARATUS THEREFOR

Title (de)

LEITFÄHIGES GEWEBE, VERFAHREN ZUR HERSTELLUNG EINES LEITFÄHIGEN GEWEBES UND VORRICHTUNG DAFÜR

Title (fr)

TISSU CONDUCTEUR, PROCÉDÉ DE FABRICATION D'UN TISSU CONDUCTEUR ET APPAREIL POUR CELUI-CI

Publication

**EP 3181746 A1 20170621 (EN)**

Application

**EP 15275267 A 20151218**

Priority

EP 15275267 A 20151218

Abstract (en)

A woven fabric (10) formed of a first set of yarns (12) extending in a first direction and a second set of yarns (14) extending in a second direction. The first and second sets of yarns (12, 14) are woven together. The first set of yarns (12) includes a plurality of first conductors (16), while the second set of yarns (14), includes a series of second electrical conductors (18). The first and second sets of conductors (16, 18) cross over one another at crossing points. At each crossing point, a non-conductive element (24) is disposed directly between the first and second electrical conductors (16, 18) at the crossing point (20) so as to provide a physical barrier between the first and second electrical conductors (16, 18). At some crossing points, a physical electrical connection (22) is provided between crossing electrical conductors (16, 18) in order to provide a permanent connection between the conductors (16, 18). A variety of non-conductive tie yarns (50, 52, 60-64) provided to fix the conductors (16, 18) in position. The structure provides a robust yarn with minimised risk of short circuiting between crossing conductors which are intended to be kept separate.

IPC 8 full level

**D03D 1/00** (2006.01); **D03D 13/00** (2006.01); **D03D 15/00** (2006.01)

CPC (source: EP US)

**D03D 1/0088** (2013.01 - EP); **D03D 13/00** (2013.01 - EP US); **D03D 15/283** (2021.01 - EP US); **D03D 15/67** (2021.01 - EP US); **D10B 2401/16** (2013.01 - EP)

Citation (applicant)

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- US 3711627 A 19730116 - MARINGULOV K
- US 3414666 A 19681203 - DOUNDOULAKIS GEORGE J, et al

Citation (search report)

- [X] CN 101413168 A 20090422 - SUZHOU XINLUN ULTRA CLEAN TECH [CN]
- [X] US 2010279572 A1 20101104 - FUJITA KAZUYA [JP], et al
- [A] WO 2015101759 A1 20150709 - CITY ZEN SCIENCES [FR], et al

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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