

Title (en)

ELECTRICAL FUNCTIONAL LAYER, PRODUCTION METHOD AND USE THEREOF

Title (de)

ELEKTRISCHE FUNKTIONSSCHICHT, HERSTELLUNGSVERFAHREN UND VERWENDUNG DAZU

Title (fr)

COUCHE FONCTIONNELLE ÉLECTRIQUE, SON PROCÉDÉ DE FABRICATION ET SON UTILISATION

Publication

**EP 2411897 A2 20120201 (DE)**

Application

**EP 10712007 A 20100326**

Priority

- EP 2010001917 W 20100326
- DE 102009014757 A 20090327

Abstract (en)

[origin: WO2010108692A2] The invention relates to a transparent electrically conductive functional layer, especially a layered body. The invention enables, for the first time, the production of thin conductive functional layers for use in resistive touch screens, for example during the touching process. For example, the functional layer is effective with a 5 % covering of conductive segments and sufficient conductivity up to 95 % transparency to the human eye.

IPC 8 full level

**G06F 3/045** (2006.01)

CPC (source: EP KR US)

**G06F 3/041** (2013.01 - KR); **G06F 3/045** (2013.01 - EP KR US); **G06F 3/047** (2013.01 - EP KR US); **H01B 5/14** (2013.01 - KR)

Citation (search report)

See references of WO 2010108692A2

Citation (examination)

- EP 1947701 A2 20080723 - CAMBRIOS TECHNOLOGIES CORP [US], et al
- WO 2008127313 A2 20081023 - GRUNER GEORGE [US]
- JP 2004192093 A 20040708 - MICRO GIJUTSU KENKYUSHO KK, et al
- DE 102006045514 A1 20080221 - SAINT GOBAIN SEKURIT D GMBH [DE]
- K. TVINGSTEDT ET AL: "Electrode Grids for ITO Free Organic Photovoltaic Devices", ADVANCED MATERIALS, vol. 19, no. 19, 5 October 2007 (2007-10-05), pages 2893 - 2897, XP055001127, ISSN: 0935-9648, DOI: 10.1002/adma.200602561

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010108692 A2 20100930; WO 2010108692 A3 20110428;** AU 2010227843 A1 20111006; AU 2010227843 A2 20111124;  
AU 2010227843 B2 20150709; BR PI1013615 A2 20160419; CA 2756116 A1 20100930; CA 2756116 C 20171017; CN 102365612 A 20120229;  
CN 102365612 B 20151007; DE 102009014757 A1 20101007; EP 2411897 A2 20120201; JP 2012522282 A 20120920;  
KR 20110133050 A 20111209; MX 2011009921 A 20111006; RU 2011143369 A 20130510; RU 2541873 C2 20150220;  
US 2012193130 A1 20120802; US 9513758 B2 20161206; ZA 201106693 B 20130327

DOCDB simple family (application)

**EP 2010001917 W 20100326;** AU 2010227843 A 20100326; BR PI1013615 A 20100326; CA 2756116 A 20100326;  
CN 201080013702 A 20100326; DE 102009014757 A 20090327; EP 10712007 A 20100326; JP 2012501192 A 20100326;  
KR 20117024888 A 20100326; MX 2011009921 A 20100326; RU 2011143369 A 20100326; US 201013259274 A 20100326;  
ZA 201106693 A 20110913