

Title (en)

MULTI-LAYER SYSTEM METHOD FOR PRODUCTION AND USE THEREOF IN ELECTRO-OPTICAL COMPONENTS

Title (de)

MULTISCHICHTSYSTEM, VERFAHREN ZU DESSEN HERSTELLUNG VON DESSEN VERWENDUNG IN ELEKTROOPTISCHEN BAUTEILEN

Title (fr)

SYSTEME MULTICOUCHE, PROCEDE DE PRODUCTION DUDIT SYSTEME ET UTILISATION DE CE DERNIER DANS DES COMPOSANTS ELECTRO-OPTIQUES

Publication

EP 1834343 A1 20070919 (DE)

Application

EP 05821160 A 20051223

Priority

- EP 2005013961 W 20051223
- DE 102004063030 A 20041228

Abstract (en)

[origin: WO2006069751A1] The invention relates to a multi-layer system, method for production and use thereof in electro-optical components. Said multi-layer system comprises a) a mesoporous layer of a semiconductor, optionally applied to an electrode, b) a layer in contact with the mesoporous layer (a) containing at least one layer of an anionic and a cationic polyelectrolyte, optionally with semiconductor properties, c) optionally one or more further layers, containing organic functional materials and d) optionally a counter electrode, which may be produced by polyelectrolyte adsorption of the polyelectrolyte on the mesoporous layer which is suitable for application in electro-optical components, such as solar cells, photodetectors, and (photo)electrochromic devices.

IPC 8 full level

H01G 9/20 (2006.01)

CPC (source: EP)

H01G 9/2009 (2013.01); **Y02E 10/542** (2013.01); **Y02P 70/50** (2015.11)

Citation (search report)

See references of WO 2006069751A1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006069751 A1 20060706; DE 102004063030 A1 20060817; EP 1834343 A1 20070919

DOCDB simple family (application)

EP 2005013961 W 20051223; DE 102004063030 A 20041228; EP 05821160 A 20051223