

Title (en)  
ELECTROACTIVE MATERIAL CONTAINING ORGANIC COMPOUNDS WITH RESPECTIVELY POSITIVE AND NEGATIVE REDOX ACTIVITIES, METHOD AND KIT FOR MAKING SUCH MATERIAL, ELECTRICALLY CONTROLLED DEVICE AND GLAZING USING SUCH ELECTROACTIVE MATERIAL

Title (de)  
ELEKTROAKTIVES MATERIAL MIT ORGANISCHEN VERBINDUNGEN MIT ENTSPRECHEND POSITIVEN UND NEGATIVEN REDOXAKTIVITÄTEN, VERFAHREN UND KIT ZUR HERSTELLUNG SOLCH EINES MATERIALS, ELEKTRISCH GESTEUERTE VORRICHTUNG UND GLASUR MIT SOLCH EINEM ELEKTROAKTIVEM MATERIAL

Title (fr)  
MATERIAU ELECTROACTIF RENFERMANT DES COMPOSES ORGANIQUES A ACTIVITES REDOX RESPECTIVEMENT POSITIVE ET NEGATIVE, PROCEDE ET KIT DE FABRICATION DE CE MATERIAU, DISPOSITIF ELECTROCOMMANDABLE ET VITRAGES UTILISANT UN TEL MATERIAU ELECTROACTIF

Publication  
**EP 2162786 A1 20100317 (FR)**

Application  
**EP 08806089 A 20080625**

Priority  
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• FR 0755986 A 20070625

Abstract (en)  
[origin: WO2009007601A1] The electroactive material of the invention includes a self-sustained polymer matrix in which is inserted an electroactive system including or made of: at least one electroactive organic compound capable of reduction and/or accepting electrons and cations serving as compensation charges; at least one electroactive organic compound capable of oxidation and/ejecting electrons and cations serving as compensation charges; at least one of the above electroactive organic compounds being electrochromous for obtaining a colour contrast of ionic charges; and a liquid for solubilizing said electroactive system, wherein said liquid does not solubilize the self-sustained polymer matrix, the latter being selected so as to provide a percolation path for the ionic charges, which results, upon the application of a dielectric current, in oxidation and reduction reactions of said electroactive organic compounds which are necessary for obtaining a colour contrast.

IPC 8 full level  
**C09K 9/02** (2006.01); **G02F 1/1503** (2019.01)

CPC (source: EP KR US)  
**C09K 9/02** (2013.01 - EP KR US); **G02F 1/1503** (2018.12 - EP KR US); **G02F 1/15165** (2018.12 - EP US); **G02F 2001/15145** (2018.12 - EP KR US)

Citation (search report)  
See references of WO 2009007601A1

Citation (examination)  
US 5910854 A 19990608 - VARAPRASAD DESARAJU V [US], et al

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**FR 2917848 A1 20081226; FR 2917848 B1 20090925**; BR PI0813234 A2 20141223; CA 2691687 A1 20090115; CN 101784950 A 20100721; EP 2162786 A1 20100317; JP 2010531470 A 20100924; KR 20100028574 A 20100312; US 2010208325 A1 20100819; WO 2009007601 A1 20090115

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