

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

Title (de)
HALBELEKTROAKTIVES MATERIAL MIT ORGANISCHEN VERBINDUNGEN MIT POSITIVER UND NEGATIVER REDOXAKTIVITÄT, VERFAHREN UND KIT ZUR HERSTELLUNG SOLCH EINES MATERIALS, ELEKTRISCH GESTEUERTE VORRICHTUNG UND GLASUR MIT SOLCH EINEM HALBELEKTROAKTIVEM MATERIAL

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

Publication
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Application
EP 08806090 A 20080625

Priority
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• FR 0755987 A 20070625

Abstract (en)
[origin: WO2009007602A1] The semi-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 oxidation and/ejecting electrons and cations serving as compensation charges; or at least one electroactive organic compound capable of reduction and/or accepting electrons and cations serving as compensation charges; and ionic charges; and a liquid for solubilizing said semi-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)
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Citation (search report)
See references of WO 2009007602A1

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

Cited by
EP2239626A4

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
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DOCDB simple family (application)
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