Title (en)

ELECTRICALLY CONTROLLABLE DEVICE WITH UNIFORM COLORATION/DISCOLORATION OVER THE ENTIRE SURFACE THEREOF

Title (de)

ELEKTRISCH STEUERBARE VORRICHTUNG MIT EINHEITLICHER FÄRBUNG/VERFÄRBUNG ÜBER DIE GESAMTE OBERFLÄCHE

Title (fr)

DISPOSITIF ELECTROCOMMANDABLE A COLORATION/DECOLORATION HOMOGENE SUR TOUTE LA SURFACE

Publication

EP 2404214 A1 20120111 (FR)

Application

EP 10711862 A 20100302

Priority

- EP 2010052620 W 20100302
- FR 0951309 A 20090302

Abstract (en)

[origin: WO2010100147A1] The invention relates to a device comprising a stack of the following layers, namely: a first substrate with a glazing function (V1), a first electronically conductive layer (TCC1) with an associated current supply, an electroactive layer (EA), a second electronically conductive layer (TCC2) with an associated current supply, and a second substrate with a glazing function (V2). According to the invention, each of the layers, TCC1 and TCC2, is selected to have a resistance per unit area R? that allows same to have an equipotential surface in terms of coloration and discoloration, each of said layers having a variable resistance R? that diminishes gradually from the periphery towards the centre of the electronically controllable device and R? being selected at the centre of the glazing in the zone(s) farthest from the current supplies, such that the ohmic drop across the central surface of the substrates of the glazing in the zone(s) farthest from the current supplies is at most equal to five percent of the value of the voltage applied at the terminals of the device.

IPC 8 full level

G02F 1/155 (2006.01); G02F 1/1503 (2019.01)

CPC (source: EP KR US)

G02F 1/13439 (2013.01 - KR); **G02F 1/1503** (2018.12 - KR); **G02F 1/155** (2013.01 - EP KR US); G02F 1/13439 (2013.01 - EP US); G02F 1/1503 (2018.12 - EP US)

Citation (search report)

See references of WO 2010100147A1

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)

FR 2942665 A1 20100903; **FR 2942665 B1 20111104**; CN 102341750 A 20120201; EP 2404214 A1 20120111; JP 2012519308 A 20120823; KR 20110126125 A 20111122; US 2011317243 A1 20111229; WO 2010100147 A1 20100910

DOCDB simple family (application)

FR 0951309 A 20090302; CN 201080009931 A 20100302; EP 10711862 A 20100302; EP 2010052620 W 20100302; JP 2011552418 A 20100302; KR 20117020381 A 20100302; US 201013203784 A 20100302