Title (en)

ELECTROCHEMICAL DEVICE, SUCH AS AN ELECTRICALLY CONTROLLED SYSTEM WITH VARIABLE OPTICAL AND/OR ENERGY PROPERTIES

Title (de)

ELEKTROCHEMISCHE VORRICHTUNG, VOM TYP ELEKTRISCH ANSTEUERBARE SYSTEME MIT VARIABLEN OPTISCHEN UND/ODER ENERGETISCHEN EIGENSCHAFTEN

Title (fr)

DISPOSITIF ELECTROCHIMIQUE, DU TYPE SYSTEME ELECTROCOMMANDABLE A PROPRIETES OPTIQUES ET/OU ENERGETIQUES VARIABLES

Publication

EP 1078299 A1 20010228 (FR)

Application

EP 00910992 A 20000317

Priority

- FR 0000675 W 20000317
- FR 9903420 A 19990319

Abstract (en)

[origin: FR2791147A1] The invention concerns an electrochemical device, in particular an electrically controlled system with variable optical and/or energy properties, comprising at least a substrate provided with a stack of functional layers including at least one electroconductive layer A based on metal oxide(s) and at least an electrochemically active layer F. Said layer A forms part of a multicomponent electrode E associating with the layer A at least a material B more conductive than the former and/or at least a network C of conductor wires or conduction bands. The invention also concerns its uses, in particular in glazing.

IPC 1-7 (main, further and additional classification)

G02F 1/155; G02F 1/153; H01M 4/74

IPC 8 full level (invention and additional information)

G02F 1/15 (2006.01); **B32B 17/10** (2006.01); **C03C 4/08** (2006.01); **C03C 4/14** (2006.01); **C03C 17/36** (2006.01); **G01N 27/26** (2006.01); **G02F 1/07** (2006.01); **G02F 1/153** (2006.01); **G02F 1/155** (2006.01); **G02F 1/17** (2006.01); **H01M 2/00** (2006.01); **H01M 4/02** (2006.01); **H01M 4/38** (2006.01); **H01M 4/74** (2006.01); **H01M 4/75** (2006.01); **H05B 41/36** (2006.01); G02F 1/1343 (2006.01)

CPC (invention and additional information)

B32B 17/10376 (2013.01); **B32B 17/10036** (2013.01); **B32B 17/10174** (2013.01); **B32B 17/10495** (2013.01); **B32B 17/10761** (2013.01); **B32B 17/1077** (2013.01); **B32B 17/10788** (2013.01); **G02F 1/155** (2013.01); G02F 1/13439 (2013.01)

Citation (search report)

See references of WO 0057243A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

EPO simple patent family

FR 2791147 A1 20000922; FR 2791147 B1 20020830; AU 3300500 A 20001009; AU 774653 B2 20040701; CA 2332622 A1 20000928; EP 1078299 A1 20010228; JP 2002540459 A 20021126; JP 4851009 B2 20120111; PL 207628 B1 20110131; PL 344188 A1 20011008; US 2004191618 A1 20040930; US 2006033978 A1 20060216; US 6747779 B1 20040608; US 7012728 B2 20060314; US 7265889 B2 20070904; WO 0057243 A1 20000928

INPADOC legal status

2018-03-07 [18D] APPLICATION DEEMED TO BE WITHDRAWN

- Effective date : 20171003

2012-07-18 [RAP1] TRANSFER OF RIGHTS OF AN APPLICATION

- Owner name : SAGE ELECTROCHROMICS, INC.

2010-12-15 [17Q] FIRST EXAMINATION REPORT

- Effective date : 20101117

2001-02-28 [17P] REQUEST FOR EXAMINATION FILED

- Effective date : 20001117

2001-02-28 [AK] DESIGNATED CONTRACTING STATES:

- Kind Code of Ref Document : A1
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE