

Title (en)

HIGHLY HEAT-RESISTANT LOW-EMISSIVITY MULTILAYER SYSTEM FOR TRANSPARENT SUBSTRATES

Title (de)

THERMISCH HOCH BELASTBARES MEHRSCHICHTSYSTEM MIT GERINGEM EMISSIONSVERMÖGEN FÜR TRANSPARENTE SUBSTRATE

Title (fr)

SYSTEME DE COUCHES A FAIBLE EMISSIVITE ET HAUTE TENUE A LA CHALEUR POUR SUBSTRATS TRANSPARENTS.

Publication

EP 2001813 A2 20081217 (FR)

Application

EP 07731838 A 20070328

Priority

- FR 2007051032 W 20070328
- DE 102006014796 A 20060329

Abstract (en)

[origin: DE102006014796A1] Thermally highly loaded low-E layer system comprises an antireflection upper layer having a partial layer of zinc oxide or mixed oxide (ZnMeO_x) containing zinc oxide or a mixed oxide layer sequence of the type: ZnO: Al/ZnOMeO_x, a partial layer of silicon nitride (Si 3N₄ or Si_xO_yN_z) and a 0.5-5 nm thick separating layer made from a metal oxide or mixed oxide with a cubic crystal lattice arranged between the partial layers.

IPC 8 full level

C03C 17/36 (2006.01)

CPC (source: EP KR US)

C03C 17/36 (2013.01 - EP KR US); **C03C 17/3626** (2013.01 - EP US); **C03C 17/3652** (2013.01 - EP US); **C03C 17/366** (2013.01 - EP US); **C23C 14/06** (2013.01 - EP US); **C23C 14/086** (2013.01 - EP US); **C03C 2217/73** (2013.01 - EP US); **C03C 2218/154** (2013.01 - EP US); **Y10T 428/265** (2015.01 - EP US); **Y10T 428/31601** (2015.04 - EP US)

Citation (search report)

See references of WO 2007110552A2

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006014796 A1 20071004; DE 102006014796 B4 20090409; BR PI0709920 A2 20110726; CA 2647412 A1 20071004; CN 101415652 A 20090422; CN 101415652 B 20130313; EA 015326 B1 20110630; EA 200870383 A1 20090428; EP 2001813 A2 20081217; JP 2009531266 A 20090903; JP 5529528 B2 20140625; KR 101400420 B1 20140527; KR 20080106952 A 20081209; US 2010178492 A1 20100715; US 8043707 B2 20111025; WO 2007110552 A2 20071004; WO 2007110552 A3 20071115

DOCDB simple family (application)

DE 102006014796 A 20060329; BR PI0709920 A 20070328; CA 2647412 A 20070328; CN 200780012351 A 20070328; EA 200870383 A 20070328; EP 07731838 A 20070328; FR 2007051032 W 20070328; JP 2009502171 A 20070328; KR 20087023853 A 20070328; US 29509007 A 20070328