

Title (en)

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

Title (de)

THERMISCH HOCH BELASTBARES MEHRSCICHTSYSTEM 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

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- 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 3N 4 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

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**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

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