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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

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(54) **Title:** LOW-EMISSIVITY AND ANTI-SOLAR GLAZING

(57) **Abstract:** The invention relates to low-emissivity and anti-solar glazing systems that change only very little in properties when they are subjected to a heat treatment. They comprise a stack of thin layers comprising an alternating arrangement of n infrared radiation reflecting functional layers and n+ 1 dielectric coatings, characterised in that: (i) the first dielectric coating comprises a layer made from an oxide in contact with the substrate, (ii) the portion of the coating stack between two functional layers comprises, in order: a barrier layer, a zinc oxide-based layer, a layer of zinc-tin mixed oxide, a nucleation layer, and (iii) the last dielectric coating comprises a layer made from an oxide other than silicon oxide with a thickness greater than 3 nm overlaid with a layer made from a silicon nitride or a silicon oxide with a thickness greater than 10 nm superposed thereon.



INTERNATIONAL SEARCH REPORT

International application No

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A. CLASSIFICATION OF SUBJECT MATTER
 INV. C03C17/36
 ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2011/147864 A1 (AGC GLASS EUROPE [BE]; HEVESI KADOSA [BE]; SICHA JAN [BE]) 1 December 2011 (2011-12-01) page 29, line 2 - page 31, line 22 page 33, line 19 - line 25 page 37, line 12 - line 14 page 38, line 1 - line 12 page 40; example 34; table 1 -----	1-16
A	US 2011/236715 A1 (POLCYN ADAM D [US] ET AL) 29 September 2011 (2011-09-29) paragraph [0041] examples 7,8 -----	1-16
A	FR 2 936 510 A1 (SAINT GOBAIN [FR]) 2 April 2010 (2010-04-02) page 21; example 8 ----- -/-	1-16



Further documents are listed in the continuation of Box C.



See patent family annex.

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Name and mailing address of the ISA/

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	WO 03/093188 A1 (PPG IND OHIO INC [US]) 13 November 2003 (2003-11-13) page 55; examples 11-13 -----	1-16
A	US 2006/029754 A1 (MEDWICK PAUL A [US] ET AL) 9 February 2006 (2006-02-09) paragraph [0006] -----	1-16

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