



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/044355

A. CLASSIFICATION OF SUBJECT MATTER INV. G02F1/161 E06B3/667 H02G3/22 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) G02F H01B H01R E06B H04L H02K H02H B32B		
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.
X	US 3 379 859 A (MARRIOTT JAMES G) 23 April 1968 (1968-04-23) column 3, line 44 - column 5, line 16; figures 2,6,7 -----	1-5,7, 9-12
X	US 3 760 157 A (NEWMAN I ET AL) 18 September 1973 (1973-09-18) column 2, line 50 - column 4, line 14; figures 2-5 -----	1,2,4,5, 7,10-12
X	US 2007/204531 A1 (GERHARDINGER PETER F [US] ET AL) 6 September 2007 (2007-09-06) paragraphs [0016] - [0028]; figures 1a-1c -----	1,7,9-12
X	EP 1 538 877 A1 (KIRRLACHER GLASMANUFAKTUR ANDR [DE]) 8 June 2005 (2005-06-08) paragraphs [0036] - [0041]; figures 1-3 ----- -/--	1,11-16, 21-23
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 9 December 2013		Date of mailing of the international search report 13/12/2013
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Hellberg, Jan

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2013/044355

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 306 140 A (STROMQUIST MICHAEL E) 15 December 1981 (1981-12-15) column 2, line 43 - column 3, line 18; figure 5	1,11-16, 21-23
A	----- US 2006/240686 A1 (JITEN HIROTAKA [JP]) 26 October 2006 (2006-10-26) paragraph [0065]; figures 1b, 9a -----	6

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/044355

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
1-7, 9-17, 21-23
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7, 9, 10

An insulated glazing comprising a conductive element passing through the connector of the spacer frame ends with special connection means for the conductive element to a conductive component within the cavity surrounded by the spacer frame.

2. claim: 8

An insulated glazing comprising a conductive element passing through the spacer frame.

3. claims: 11-17, 21-23

An insulated glazing comprising a conductive element passing between the spacer frame and one of the glazing panes.

4. claims: 18, 19

An insulated glazing comprising a riser attached to the spacer frame to connect to a second conductive component spaced from the spacer frame.

5. claim: 20

An insulated glazing comprising a plug and socket connection with a redistribution

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2013/044355

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3379859	A	23-04-1968	NONE
US 3760157	A	18-09-1973	NONE
US 2007204531	A1	06-09-2007	CA 2644021 A1 20-09-2007 US 2007204531 A1 06-09-2007 US 2010325891 A1 30-12-2010 WO 2007106216 A2 20-09-2007
EP 1538877	A1	08-06-2005	EP 1538877 A1 08-06-2005 WO 2005055668 A2 16-06-2005
US 4306140	A	15-12-1981	NONE
US 2006240686	A1	26-10-2006	JP 4304189 B2 29-07-2009 JP 2006324228 A 30-11-2006 TW I333304 B 11-11-2010 US 2006240686 A1 26-10-2006