



- (51) International Patent Classification:  
H01L 21/673 (2006.01) B65G 49/06 (2006.01)  
G02F 1/13 (2006.01) B65D 85/48 (2006.01)
- (21) International Application Number:  
PCT/US2010/033355
- (22) International Filing Date:  
3 May 2010 (03.05.2010)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
09305404.7 6 May 2009 (06.05.2009) EP
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report (Art. 21(3))

[Continued on next page]

(54) Title: CARRIER FOR GLASS SUBSTRATES

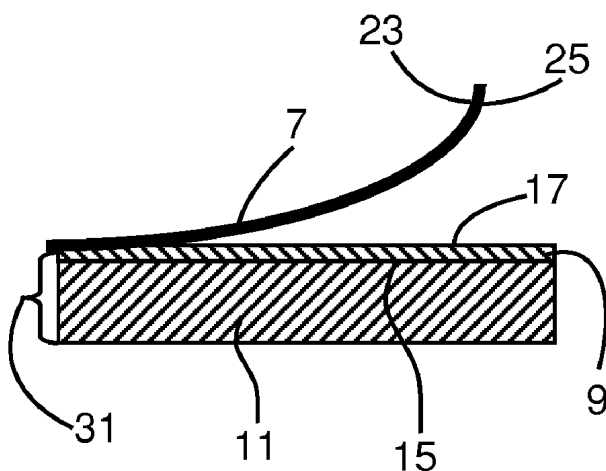


FIG. 2



(57) Abstract: A carrier (31) for a thin glass sheet (7) is disclosed. The carrier includes an elastomer (9) which has first (15) and second (17) opposed surfaces and a support (11) bonded to the first surface (15) of the elastomer (9). During use, the thin glass sheet (7) directly contacts and is releasably bonded to the elastomer's second surface (17). In order to provide a strong, yet releasable bond to the thin glass sheet (7), the elastomer's second surface (17) has a Shore A hardness in the range of 10-90 and a roughness less than or equal to 185 nanometers. In this way, the carrier/glass sheet assembly (13) is able to withstand the conditions encountered during manufacture of electronic components on the exposed surface (23) of the thin glass sheet (7).

WO 2010/129459 A3



— *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))*

**(88) Date of publication of the international search report:**  
3 March 2011

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
<i>H01L 21/673(2006.01)i, G02F 1/13(2006.01)i, B65G 49/06(2006.01)i, B65D 85/48(2006.01)i</i>		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) H01L 21/673; H01L 21/68; B65D 57/00; G02F 1/13		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean utility models and applications for utility models Japanese utility models and applications for utility models		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: carrier, thin glass sheet, TFT, elastomer, support and similar terms		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2007-251080 A (FUJIFILM CORP.) 27 September 2007 See paragraphs 14-42; and figures 1-2.	1-19
A	KR 10-2007-0096278 A (LG CHEM. LTD.) 02 October 2007 See paragraphs 112-162; and figures 1a-4d.	1-19
A	KR 10-0625915 B1 (APPLIED MATERIALS INC.) 20 September 2006 See page 3, line 15 - page 5, line 47; and figures 2-8f.	1-19
A	JP 2003-195246 A (INTERNATL BUSINESS MACH. CORP.) 09 July 2003 See paragraphs 32-57; and figures 7-21.	1,14-19
A	JP 2006-327641 A (DAINIPPON PRINTING CO., LTD.) 07 December 2006 See paragraphs 18-57; and figures 1-6.	1
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 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 28 DECEMBER 2010 (28.12.2010)		Date of mailing of the international search report <b>29 DECEMBER 2010 (29.12.2010)</b>
Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer LEE, KI SEONG Telephone No. 82-42-481-5485 

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JP 2006-327641 A	07.12.2006	None	