



(51) International Patent Classification:
C03B 19/06 (2006.01) *C03B 37/07* (2006.01)

(21) International Application Number:
PCT/US2009/003087

(22) International Filing Date:
19 May 2009 (19.05.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/156,377 30 May 2008 (30.05.2008) US

(71) Applicant (for all designated States except US): **CORNING INCORPORATED** [US/US]; 1 Riverfront Plaza, Corning, NY 14831 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOEK, Heather, D.** [US/US]; 10308 Pine Shadow Trail, Corning, NY 14830 (US). **BOTELHO, John, W.** [US/US]; 10317 Beaver Pond Lane, Corning, NY 14830 (US). **HOWLES, Jason, A.** [US/US]; 2331 Murphy Road, Corning, NY 14830 (US).

(74) Agent: **ABLE, Kevin, M.**; Corning Incorporated, SP-TI-3-1, Intellectual Property Department, Corning, NY 14831 (US).

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

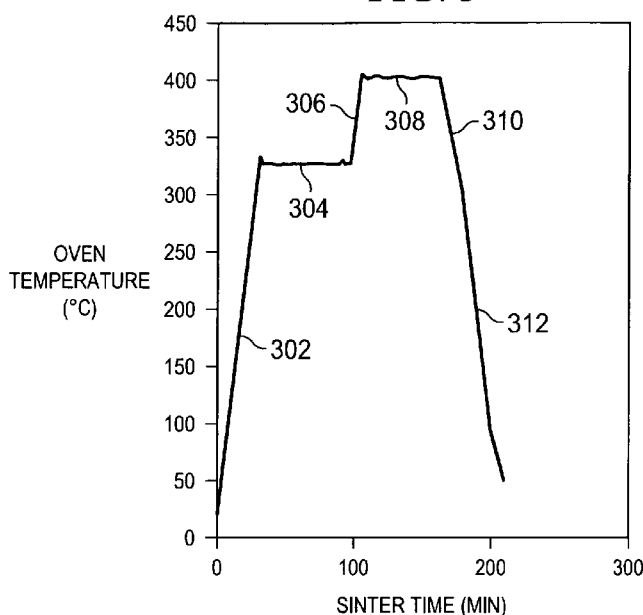
Published:

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

[Continued on next page]

(54) Title: METHOD FOR SINTERING A FRIT TO A GLASS PLATE

FIG. 3



(57) Abstract: A method is described herein for sintering a frit to a glass plate where the sintered frit and glass plate are subsequently sealed to another glass plate to form a sealed glass package. Examples of the sealed glass package include a light-emitting device (e.g., organic light emitting diode (OLED) device), a photovoltaic device, a food container, and a medicine container.



— *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:**
25 February 2010

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/003087**A. CLASSIFICATION OF SUBJECT MATTER*****C03B 19/06(2006.01)i, C03B 37/07(2006.01)i***

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)

IPC: C03B

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 since 1975

Japanese Utility Models and applications for Utility Models since 1975

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

eKOMPASS(KIPO internal) & keywords: glass plate, oven, temperture, sintering

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,073,180 A (SHAJI FAROOQ et al.) 17 December 1991 See Column 7, Line 32 - Column 9, Line 13; Figures 2-4.	1-29
A	US 3,922,155 A (HEINZ BROEMER et al.) 25 November 1975 See Column 9, Line 24 - Column 10, Line 57; Figure 3.	1-29
A	US 5,895,511 A (NAILIA A. TIKHONOVA) 20 April 1999 See Column 7, Line 36 - Column 8, Line 61; Figure 2.	1-29
A	US 4,042,362 A (JOHN F. MACDOWEEL, HERMANN L. RITTLER) 16 August 1977 See Column 2, Line 27 - Column 3, Line 53; Figures 1-3.	1-29
A	US 6,032,488 A (CHRISTIAN DERUYTER et al.) 07 March 2000 See Column 2, Line 41 - Column 3, Line 26; Figures 1-3.	1-29

☐ 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 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

05 JANUARY 2010 (05.01.2010)

Date of mailing of the international search report

05 JANUARY 2010 (05.01.2010)

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

RYU, Jei Jun

Telephone No. 82-42-481-8415



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/003087

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05073180 A	17. 12. 1991	EP 0505307 A3 EP 0505307 A2 JP 1948405 C JP 06-076245 B2 JP 05-139810 A	19. 11. 1992 23. 09. 1992 10. 07. 1995 28. 09. 1994 08. 06. 1993
US 03922155 A	25. 11. 1975	US 03981736 A	21. 09. 1976
US 05895511 A	20. 04. 1999	AU 1999-17217 A1 CA 2314895 A1 EP 1042239 A4 EP 1042239 A1 WO 1999-032411 A1	10. 12. 1998 01. 07. 1999 07. 03. 2001 11. 10. 2000 01. 07. 1999
US 04042362 A	16. 09. 1977	NONE	
US 06032488 A	07. 03. 2000	EP 0806403 A1 EP 0806403 B1	12. 11. 1997 26. 07. 2000