



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : H01J 9/26	A1	(11) International Publication Number: WO 00/44024 (43) International Publication Date: 27 July 2000 (27.07.00)
(21) International Application Number: PCT/IB00/00050 (22) International Filing Date: 17 January 2000 (17.01.00) (30) Priority Data: 11/14330 22 January 1999 (22.01.99) JP (71) Applicant (for all designated States except US): SAES GETTERS JAPAN CO., LTD. [JP/JP]; 2nd Gotanda Fujikoshi Building, 23-1 Higashi-Gotanda 5-Chome, Shinagawa-ku, Tokyo 141 (JP). (72) Inventor; and (75) Inventor/Applicant (for US only): MAEDA, Chiharu [JP/JP]; Saes Getters Japan Co., Ltd., 2nd Gotanda Fujikoshi Building, 23-1 Higashi-Gotanda 5-Chome, Shinagawa-ku, Tokyo 141 (JP).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: PROCESS FOR PRODUCING FLAT PANEL DISPLAY CONTAINING GETTER MATERIAL. (57) Abstract In the flat panel display containing a getter material, the getter material is activated during the sealing step, and is partially consumed, if the getter activation temperature is lower than the sealing temperature. On the other hand, a very small part of the getter material is activated if the getter activation temperature is higher than the sealing temperature. The problems are solved by a process comprising the steps of: providing front and rear glass plates of a flat panel display, both supporting the functional elements which are required for the final display; disposing a flat getter device on one of the glass plates at the position determined in the final display, sealingly joining the two glass plates by means of a glass paste which, upon solidification after first melted at a temperature T_1, crystallizes to give rise to a solid having a melting temperature higher than T_1; sealingly joining the two glass plates by means of a sealing material which, upon solidification at a temperature T_1, gives rise to a solid having a melting temperature higher than T_1; baking the thus-produced flat panel display at a temperature higher than T_1 while evacuating its inner space through a glass tube left in one of the two glass plates; activating the getter material at a temperature higher than T_1; and closing the inner space of the display by "tipping-off" the glass tube.		