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(54) Title: ANTIMONY-FREE GLASS, ANTIMONY-FREE FRIT AND A GLASS PACKAGE THAT IS HERMETICALLY
SEALED WITH THE FRIT

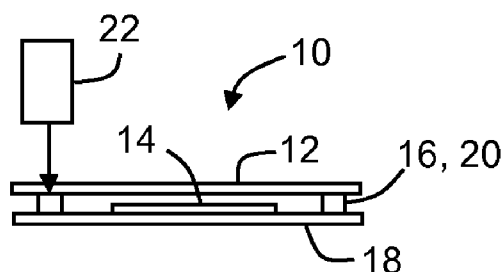


FIG. 1

(57) Abstract: An antimony-free glass comprising TeO_2 and/or Bi_2O_3 suitable for use in a frit for producing a hermetically sealed glass package is described. The hermetically sealed glass package, such as an OLED display device, is manufactured by providing a first glass substrate plate and a second glass substrate plate and depositing the antimony-free frit onto the first substrate plate. OLEDs may be deposited on the second glass substrate plate. An irradiation source (e.g., laser, infrared light) is then used to heat the frit which melts and forms a hermetic seal that connects the first glass substrate plate to the second glass substrate plate and also protects the OLEDs disposed therein. The antimony-free glass has excellent aqueous durability, good flow, and low glass transition temperature.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C03C H01L

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	US 2010/180934 A1 (NAITO TAKASHI [JP] ET AL) 22 July 2010 (2010-07-22) page 4; examples G2, G4, G12-G14, G16-G19, G23, G27-G31, G34-G38, G42; table 1 page 4; examples G44-G46; table 1 -----	1-18
A	EP 2 308 806 A1 (NIPPON ELECTRIC GLASS CO [JP]; THERMOS KK [JP]) 13 April 2011 (2011-04-13) page 13; example j; table 3 -----	1-18
A	US 2007/170861 A1 (LEE JONG WOO [KR] ET AL) 26 July 2007 (2007-07-26) paragraph [0056] -----	1-18

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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