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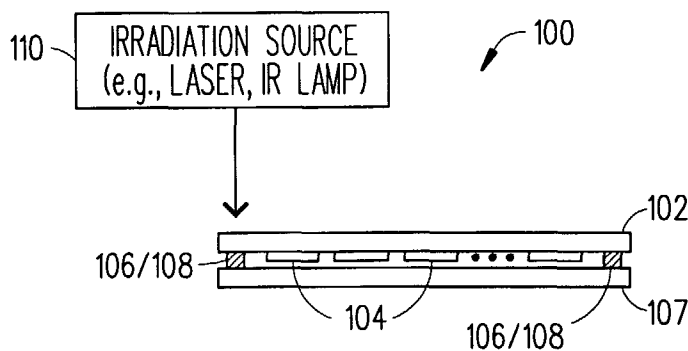
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[Continued on next page]

(54) Title: GLASS PACKAGE THAT IS HERMETICALLY SEALED WITH A FRIT AND METHOD OF FABRICATION



(57) Abstract: A hermetically sealed glass package (100) and method (200) for manufacturing the hermetically sealed glass package (100) are described herein using an OLED display as an example. Basically, the hermetically sealed OLED display (100) is manufactured by providing (step 202) a first substrate plate (102) and a second substrate plate (107) and depositing (step 208) a frit (106) onto the second substrate plate (107). OLEDs (104) are deposited (step 206) on the first substrate plate (102). An irradiation source (110)(e.g., laser, infrared light) is then used to heat (step 212) the frit (106) which melts and forms a hermetic seal (108) that connects the first substrate plate (102) to the second substrate plate (107) and also protects the OLEDs (104). The frit (106) is glass that was doped with at least one transition metal and possibly a CTE lowering filler such that when the irradiation source (110) heats the frit, it softens and forms a bond. This enables the frit (106) to melt and form the hermetic seal (108) while avoiding thermal damage to the OLEDs (104).

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