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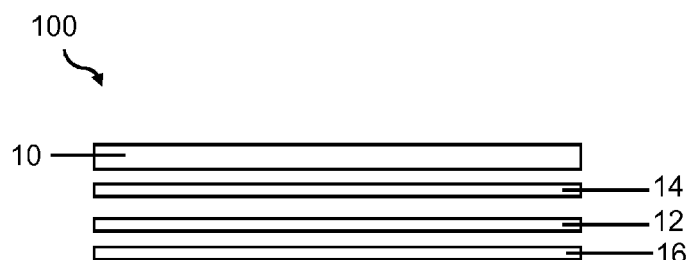


Figure 1

(57) Abstract: Sodium containing aluminosilicate and boroaluminosilicate glasses are described herein. The glasses can be used as substrates or superstrates for photovoltaic devices, for example, thin film photovoltaic devices such as CIGS photovoltaic devices. These glasses can be characterized as having strain points $\geq 535^{\circ}\text{C}$, for example, $\geq 570^{\circ}\text{C}$, thermal expansion coefficients of from 8 to 9 ppm/ $^{\circ}\text{C}$, as well as liquidus viscosities in excess of 50,000 poise. As such they are ideally suited for being formed into sheet by the fusion process.