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(54) Title: GLAZING COMPRISING A STACK OF THIN LAYERS HAVING TWO FUNCTIONAL LAYERS BASED ON SILVER AND TITANIUM NITRIDE

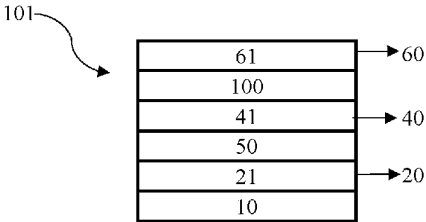


FIG. 1

(57) Abstract: A stack of thin layers on a transparent substrate (10) includes a first functional layer (50) having reflection properties in the infrared and/or solar radiation range based on silver or silver-containing metal alloy; a second functional layer (100) having reflection properties in the infrared and/or solar radiation range based on titanium nitride and dielectric coatings placed such as to sandwich each of the functional layers. The functional layer based on titanium nitride has an extinction coefficient $k > 3$ in the wavelength ranging between 1000 nm to 2500 nm and is positioned above the functional layer based on silver or silver-containing metal alloy. This proposed new type of stack having a combination of two functional layers: one based on silver and the other based on TiN exhibits improved performance (selectivity) as compared to coating stacks comprising a single silver functional layer existing in the art.