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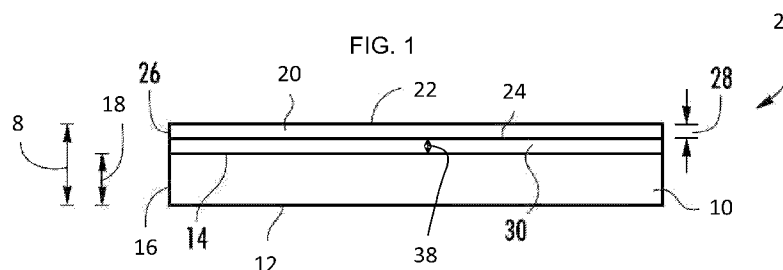
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(54) Title: GLASS ARTICLES AND METHODS FOR CONTROLLED BONDING OF GLASS SHEETS WITH CARRIERS



(57) Abstract: Surface modification layers and associated heat treatments, that may be provided on a sheet, a carrier, or both, to control both room-temperature van der Waals (and/or hydrogen) bonding and high temperature covalent bonding between the thin sheet and carrier. The room-temperature bonding is controlled so as to be sufficient to hold the thin sheet and carrier together during vacuum processing, wet processing, and/or ultrasonic cleaning processing, for example. And at the same time, the high temperature covalent bonding is controlled so as to prevent a permanent bond between the thin sheet and carrier during high temperature processing, as well as maintain a sufficient bond to prevent delamination during high temperature processing.