



(12) **United States Patent Header**

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- (54) **GLUE LAMINATED TIMBER**
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- (72) Inventor: **Gregory Header**, Richland, PA (US)
- (\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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- (21) Appl. No.: 14/797,869
- (22) Filed: Jul. 13, 2015

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- (51) **Int. Cl.**  
**B27M 3/00** (2006.01)  
**E04C 3/12** (2006.01)  
**E04C 3/14** (2006.01)
- (52) **U.S. Cl.**  
 CPC ..... **E04C 3/122** (2013.01); **B27M 3/0053**  
 (2013.01); **E04C 3/125** (2013.01); **E04C 3/14**  
 (2013.01); **E04B 2103/04** (2013.01)
- (58) **Field of Classification Search**  
 CPC ..... E04C 3/122; E04C 3/125; E04C 3/14;  
 E04B 2103/04; B27M 3/0026; B27M 3/0066;  
 B27M 3/0053  
 See application file for complete search history.

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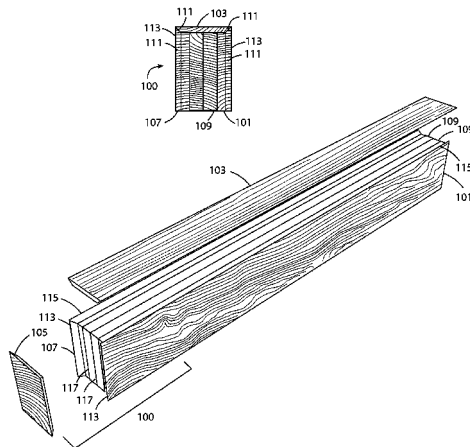
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(57) **ABSTRACT**

Disclosed is a novel glue laminated timber, or glulam, that simulates the appearance of solid sawn wood. The glulam can be utilized as both a structural and aesthetic element for glass doors and windows as well as other structural applications where appearance might be a consideration. It can also be utilized in furniture making and wood working applications where thick solid furniture-grade exotic hardwood can be utilized and can be difficult to obtain. The lams are stacked along the length of the glulam providing a solid wood outer surface as the widest surface of the glulam. At least one lam is stacked transversely and inset from opposing longitudinal edges to form the appearance of a solid wood surface and cover lamination seams.

18 Claims, 11 Drawing Sheets



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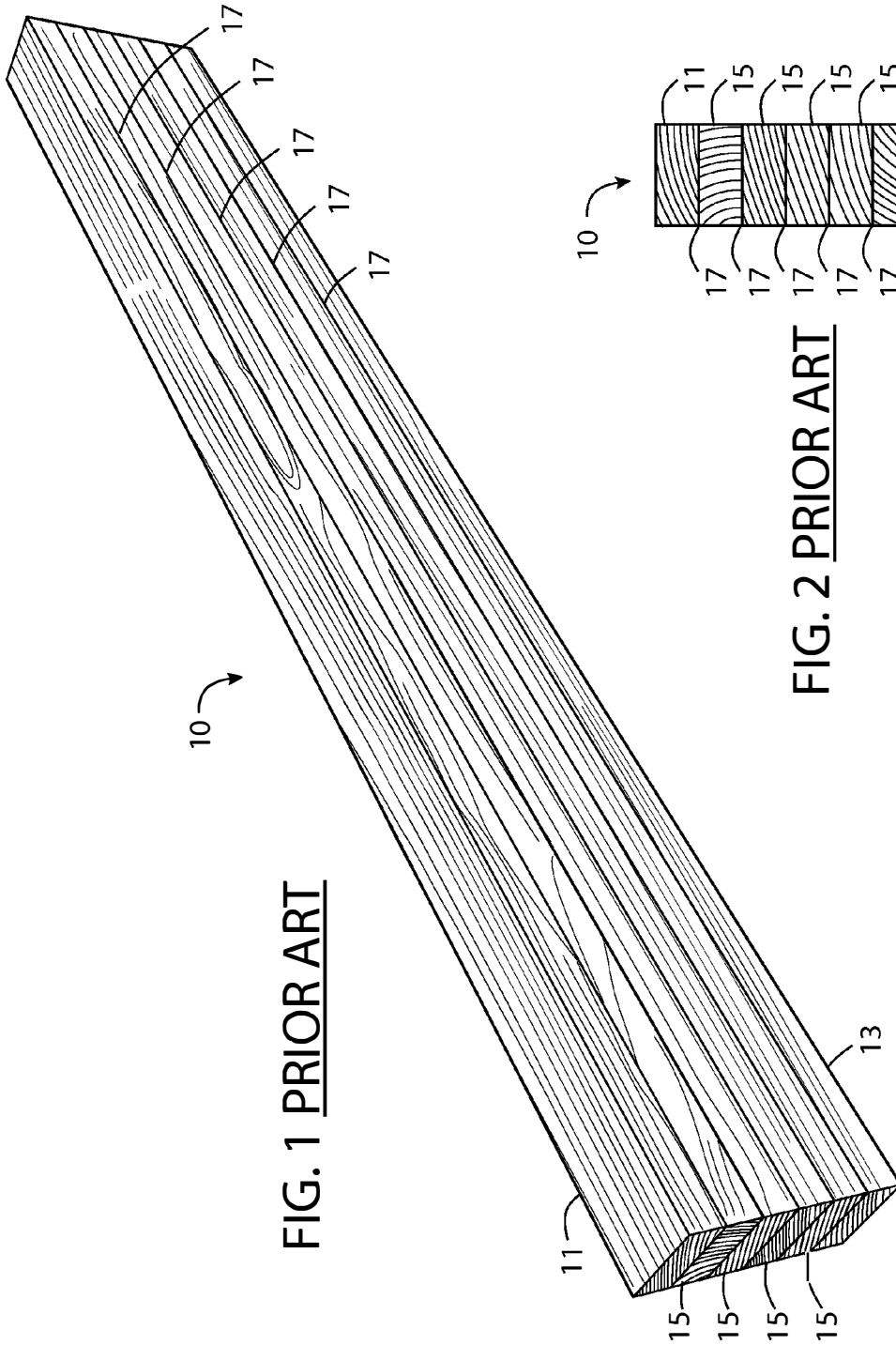


FIG. 1 PRIOR ART

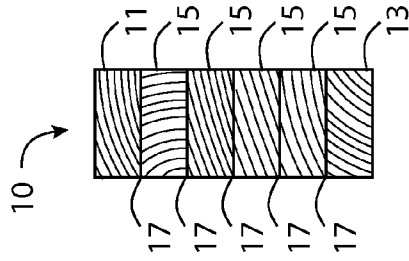


FIG. 2 PRIOR ART

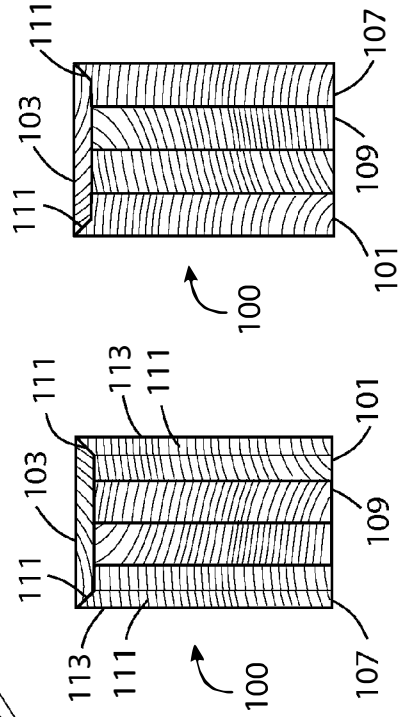
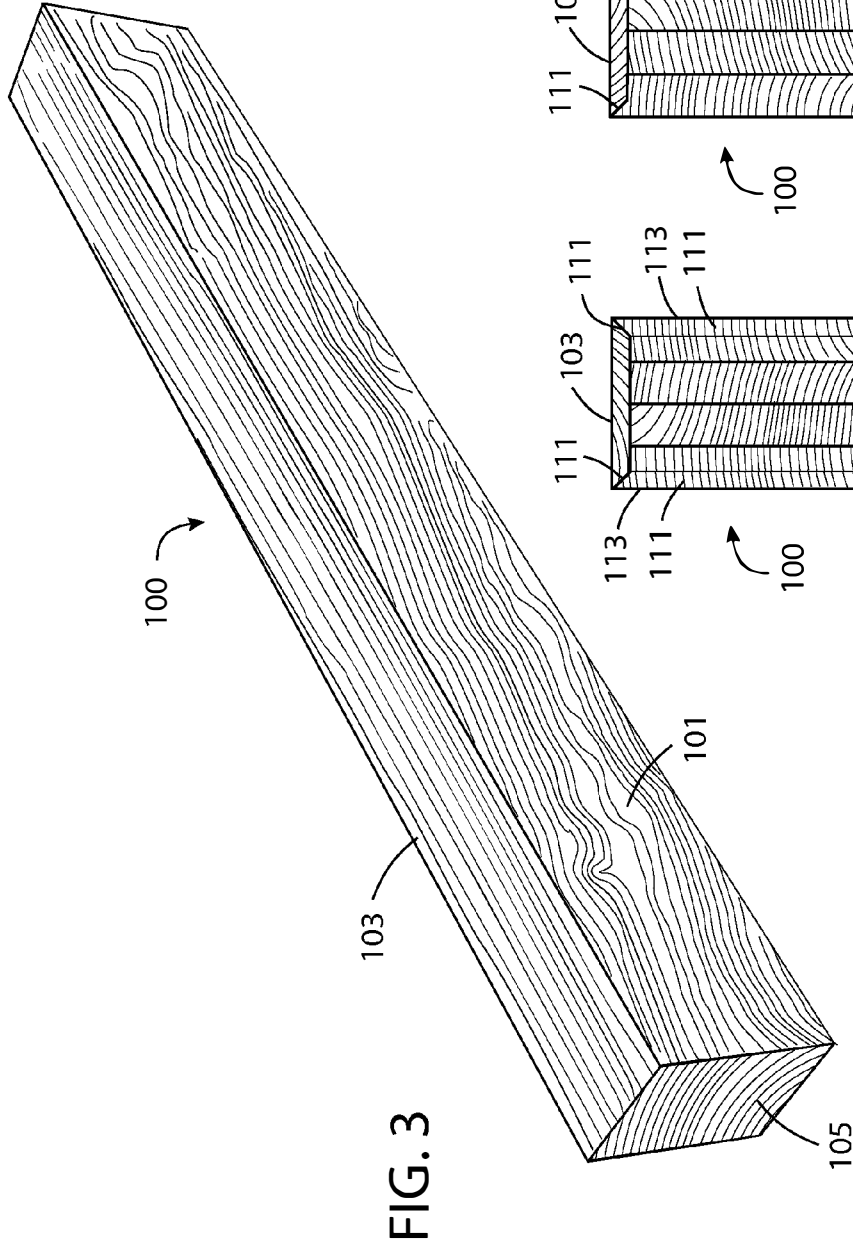
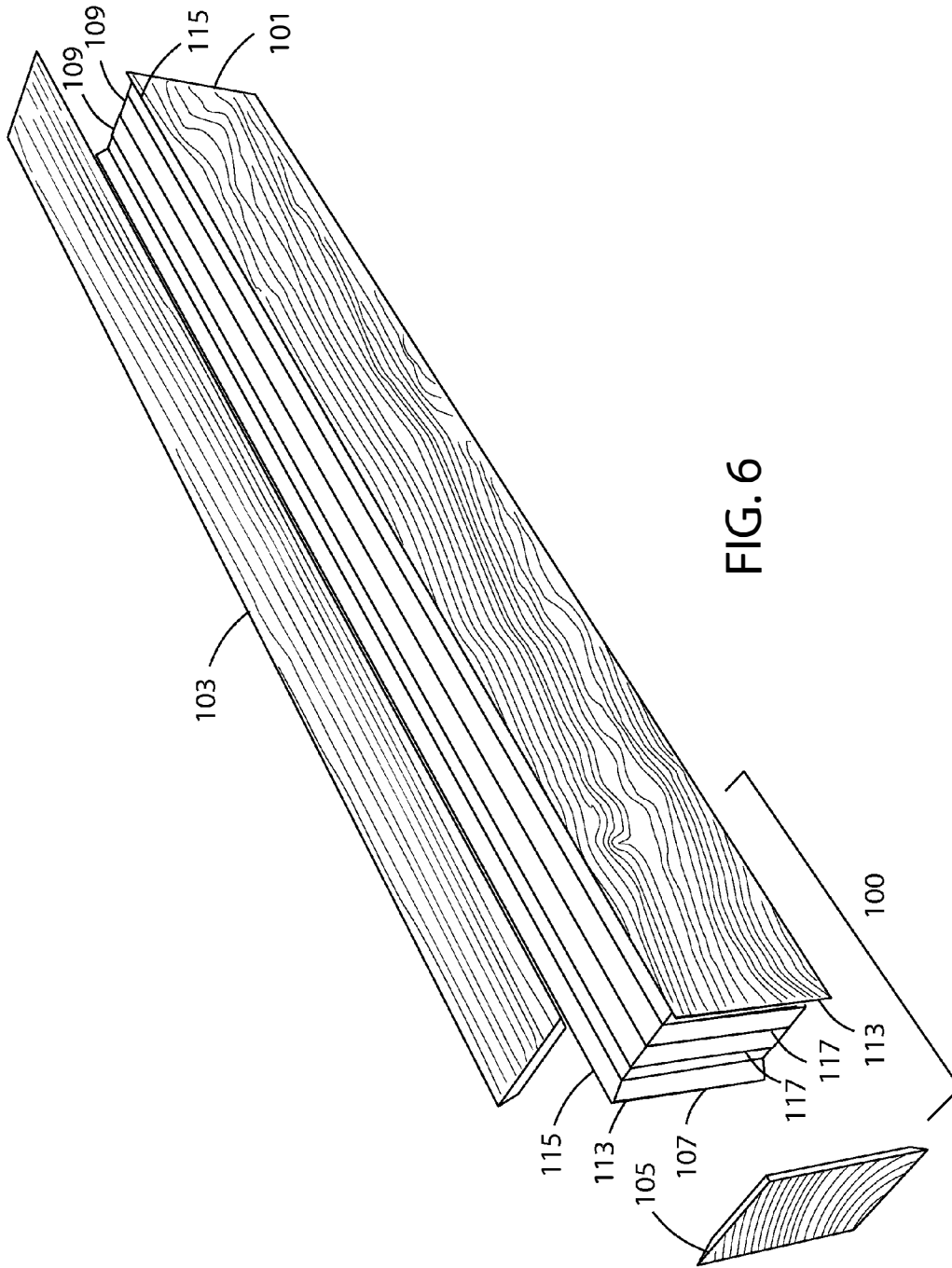


FIG. 4

FIG. 5



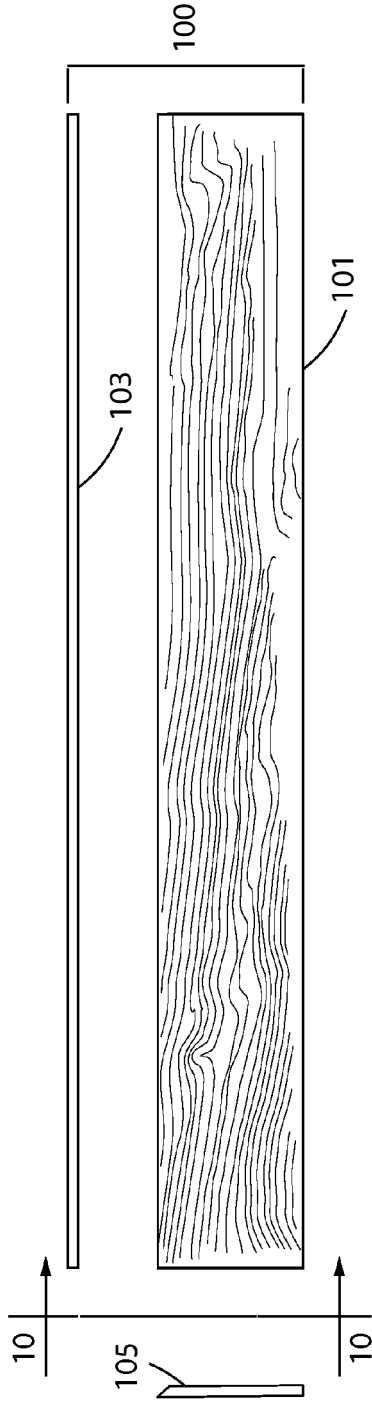


FIG. 7

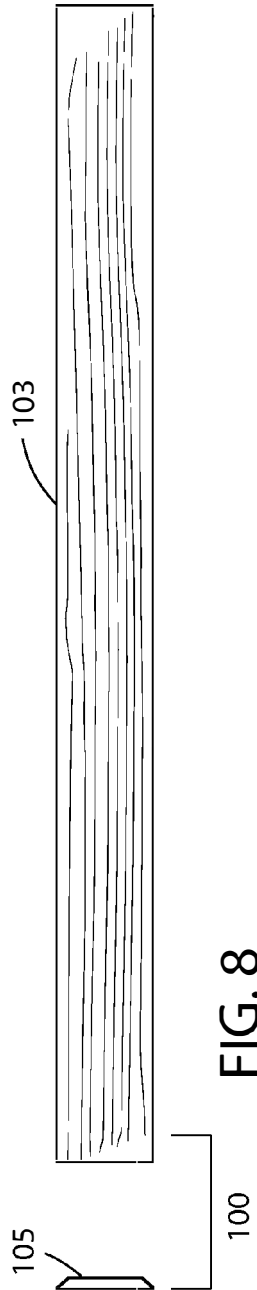


FIG. 8

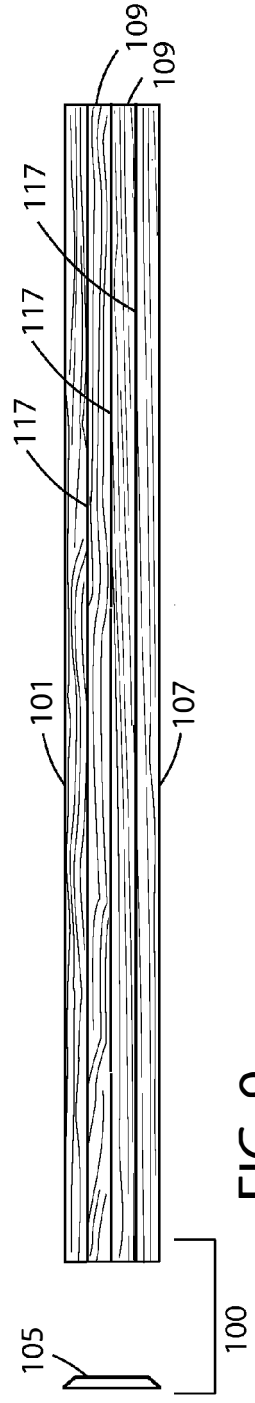


FIG. 9

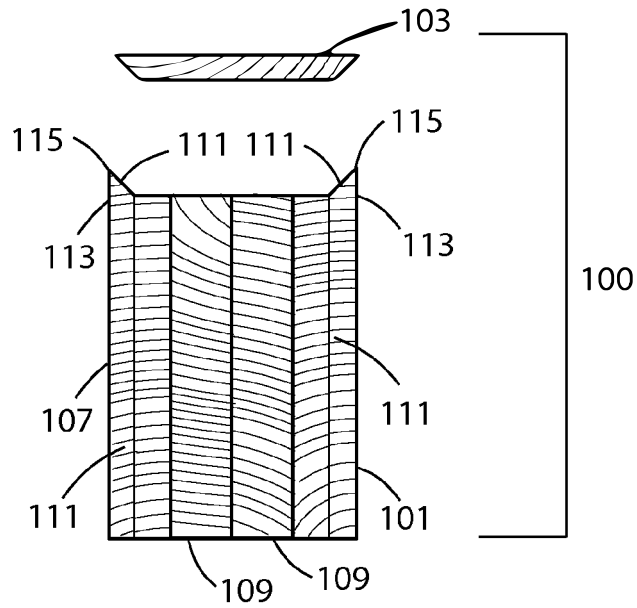


FIG. 10

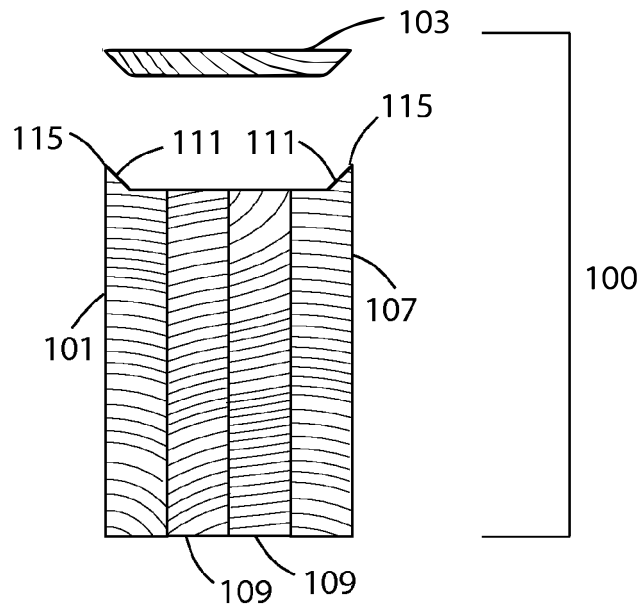


FIG. 11

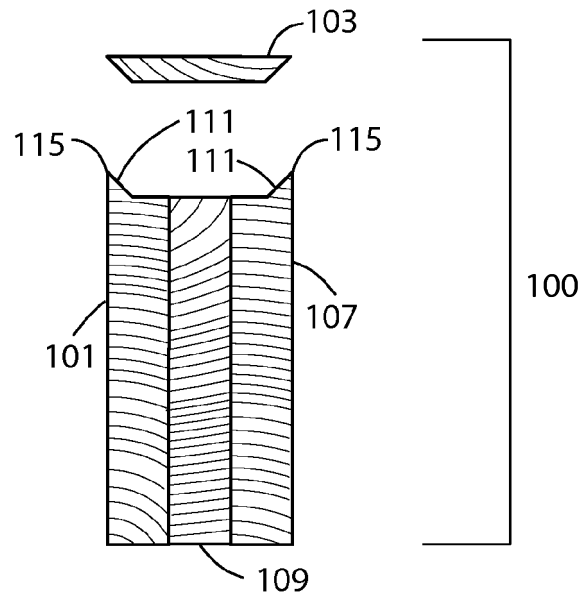


FIG. 12

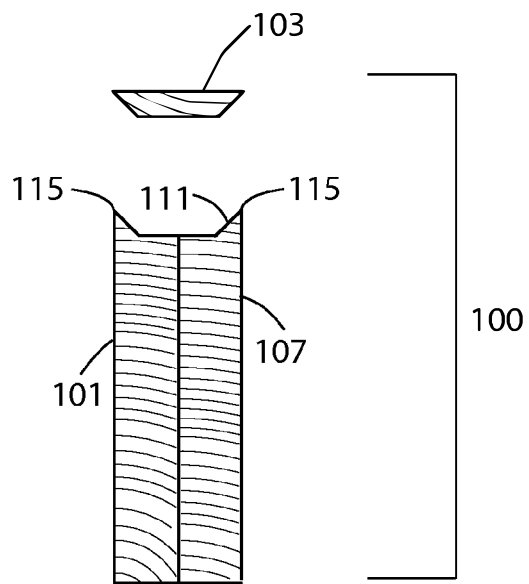


FIG. 13



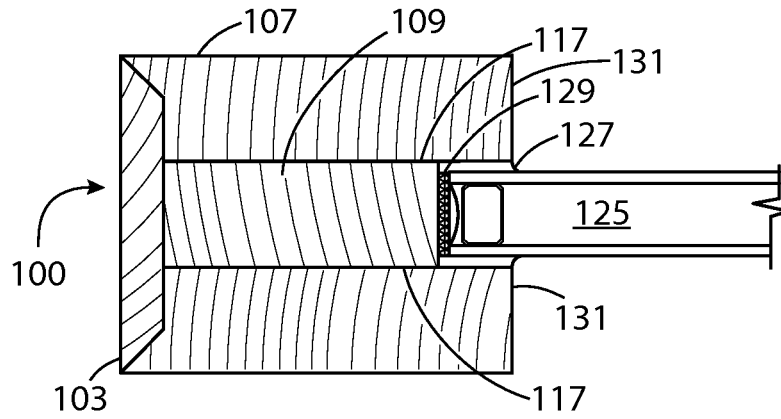


FIG.14

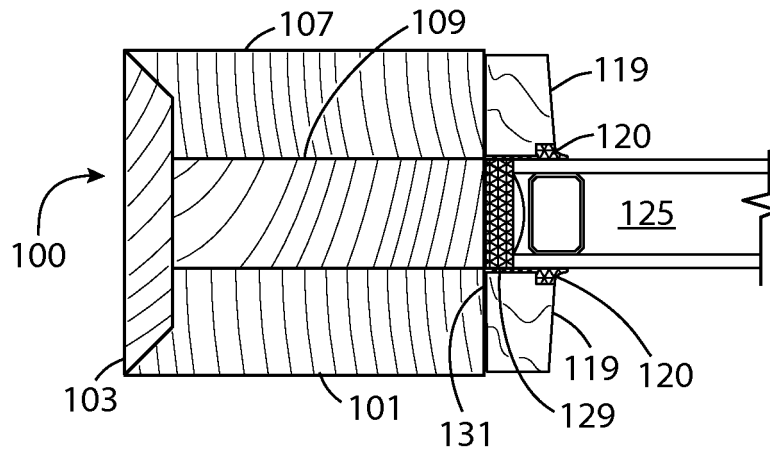


FIG.15

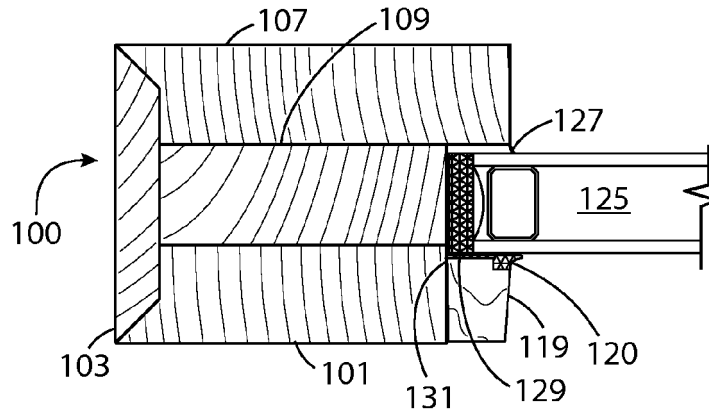


FIG. 16

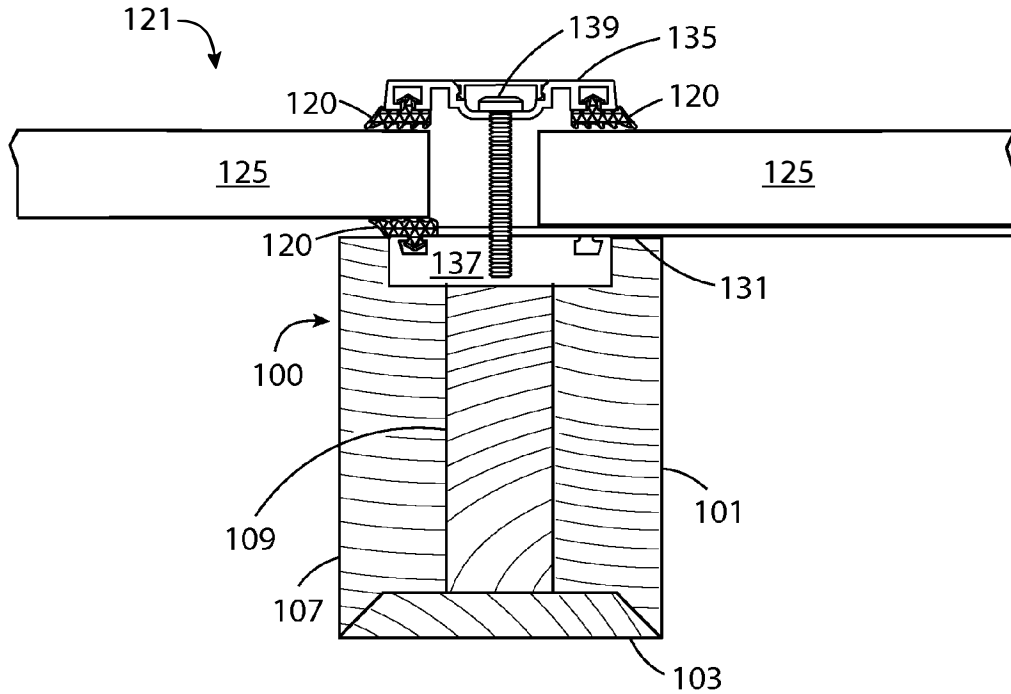


FIG. 17

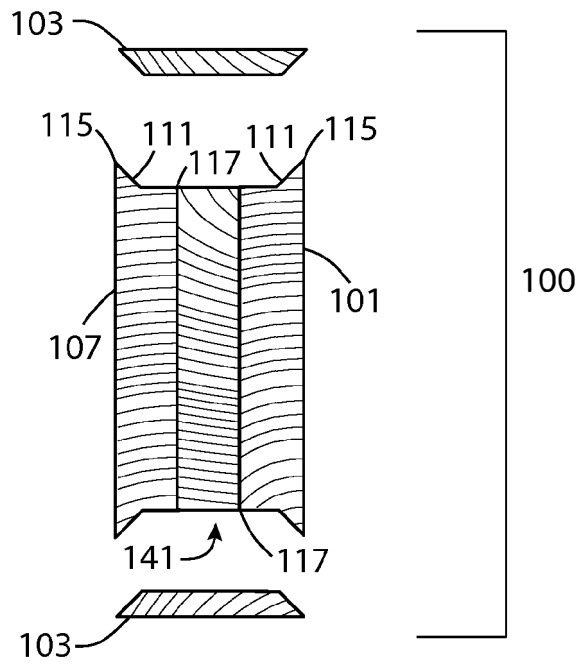


FIG. 18

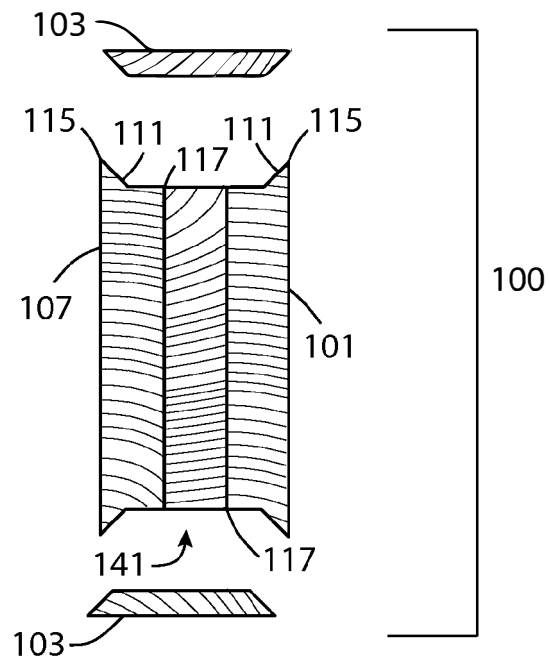


FIG. 19

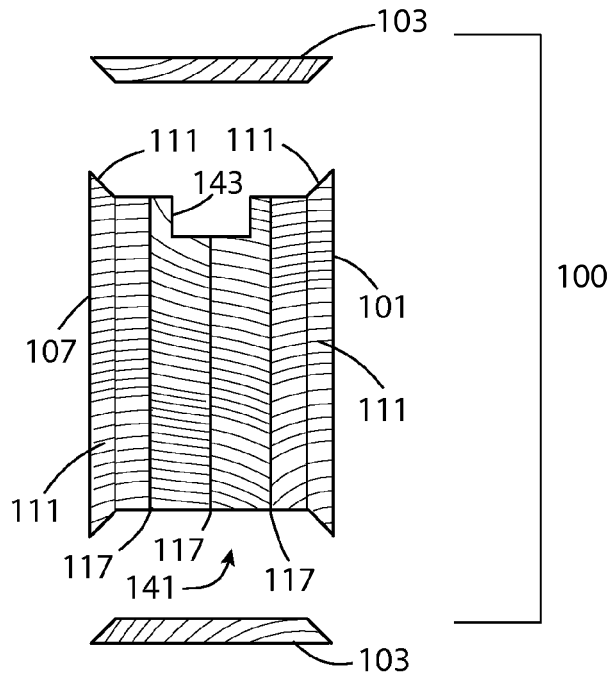


FIG. 20

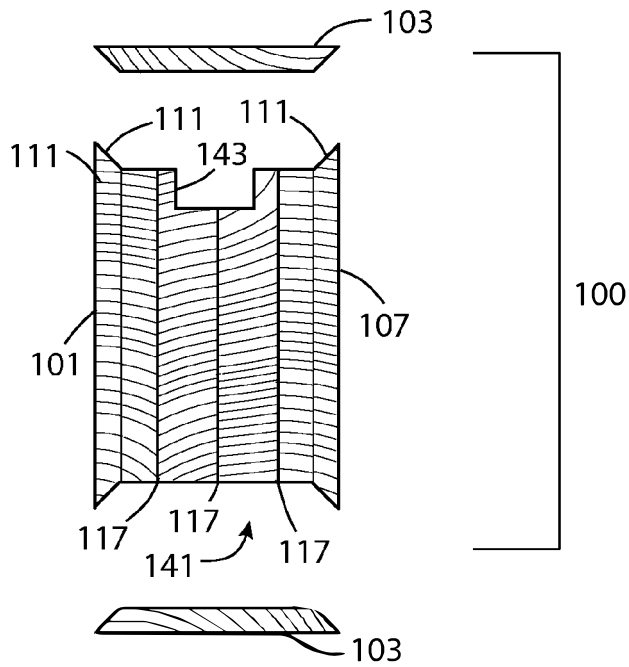


FIG. 21

