

A. A. DENNIS.

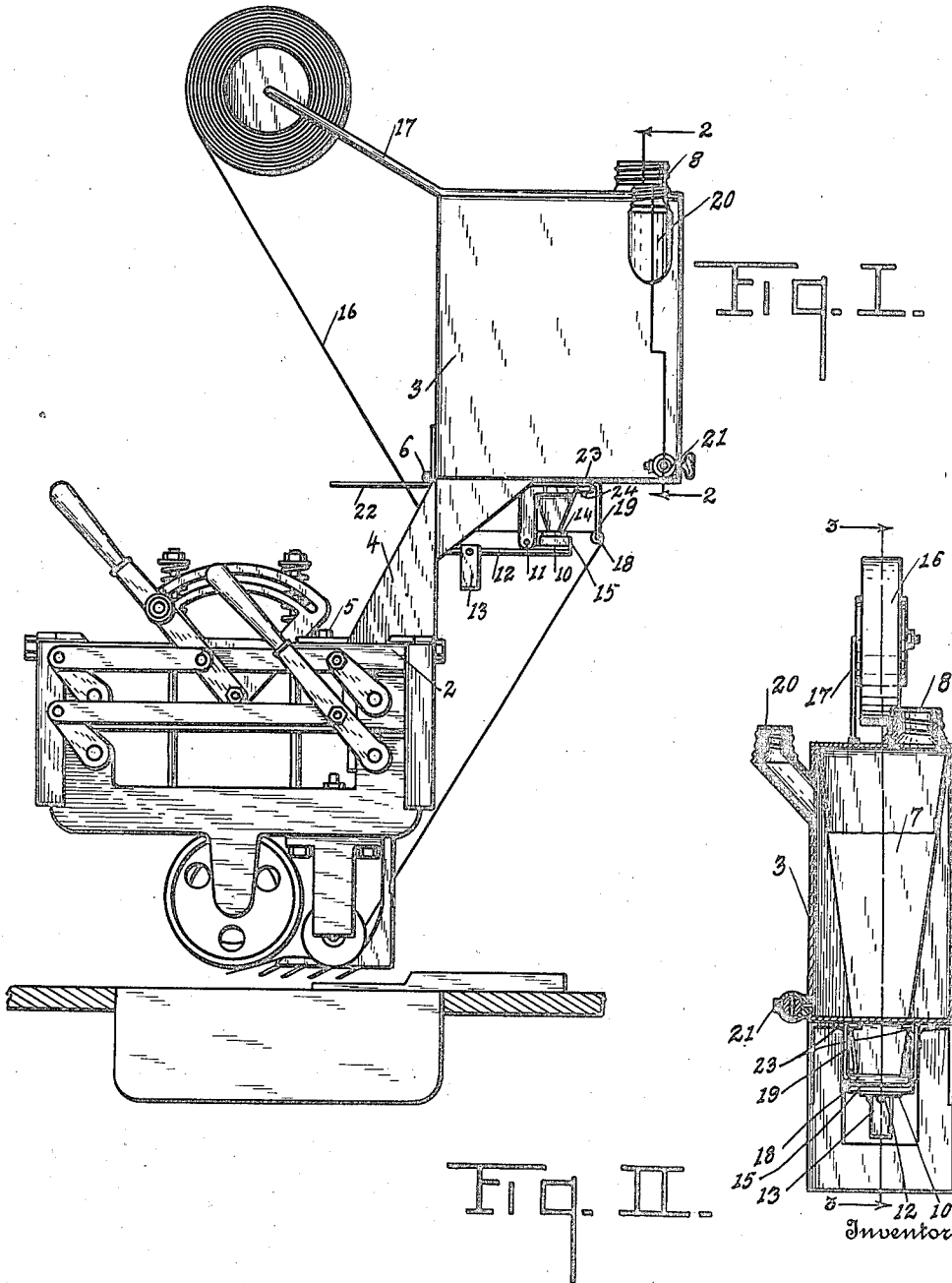
GLUE DISTRIBUTER FOR VENEER TAPING MACHINES OR MACHINES FOR SIMILAR PURPOSES.

APPLICATION FILED JAN. 29, 1914.

1,167,633.

Patented Jan. 11, 1916.

2 SHEETS—SHEET 1.



Witnesses
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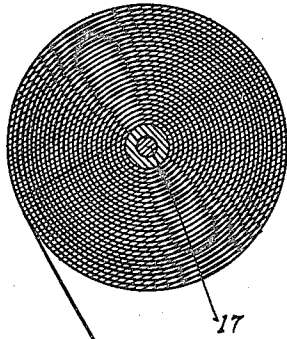
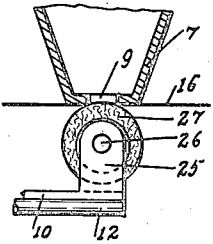


FIG. IV.

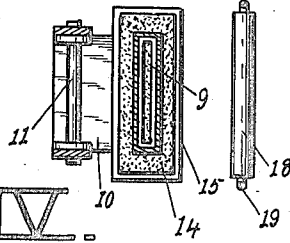


FIG. V.

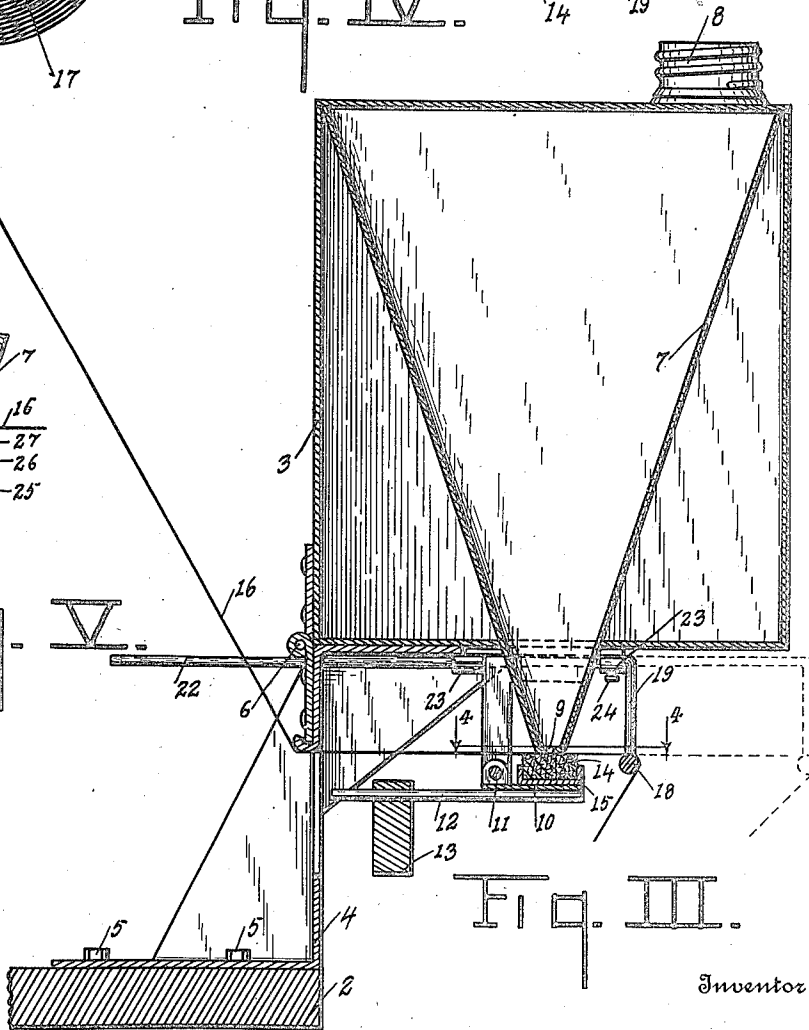


FIG. III.

Inventor

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UNITED STATES PATENT OFFICE.

ALFRED A. DENNIS, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO THE VENEER MACHINERY COMPANY, OF GRAND RAPIDS, MICHIGAN.

GLUE-DISTRIBUTER FOR VENEER-TAPING MACHINES OR MACHINES FOR SIMILAR PURPOSES.

1,167,633.

Specification of Letters Patent.

Patented Jan. 11, 1916.

Application filed January 29, 1914. Serial No. 815,132.

To all whom it may concern:

Be it known that I, ALFRED A. DENNIS, a citizen of the United States, residing at Grand Rapids, Michigan, have invented certain new and useful Improvements in Glue-Distributers for Veneer-Taping Machines or Machines for Similar Purposes, of which the following is a specification.

This invention relates to improvements in glue distributers for veneer taping machines or machines for similar purposes.

The objects of this invention are: First, to provide an improved device of this sort which is particularly adapted for use in combination with a veneer taping machine. Second, to provide in a device of this sort means whereby the glue covered strip is delivered to the taping machine with the glue of a proper consistency.

Further objects, and objects relating to details and economies of structure and operation, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing forming a part of this specification, in which:

Figure I is a side elevation of a structure embodying my invention, showing the same applied to a veneering machine. Fig. II is a longitudinal sectional view on the irregular line 2—2 of Fig. I. Fig. III is a sectional view on the line 3—3 of Fig. II. Fig. IV is a sectional view on the line 4—4 of Fig. III, showing in detail the supporting pad. Fig. V is a view, partly in section showing a modified form of pad.

In the drawing similar reference characters refer to similar parts throughout the several views and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Considering the numbered parts of the drawing, 2 is the top frame of a veneer taping machine to which my glue distributing device is attached. The casing 3 is supported on a bracket 4 which is secured to the frame 2 by means of the bolts 5 and to which the tank is fastened by means of the hinge 6. Within the outer casing 3 of the

tank is provided a glue reservoir 7 which is shaped like an inverted pyramid. This reservoir has a filling opening in its upper end which is closed by means of the screw cap 8. The apex of the inverted pyramid extends beneath the casing and is provided with a slot-like opening 9 through which the glue is discharged. The space between the inverted pyramid and the outer walls of casing 3 serves as a water jacket in which hot water may be placed to keep the glue in a melted condition.

10 is a plate which is pivoted on the rod 11, secured in brackets depending from the bottom of the glue tank. To the under side of this plate 10 is secured the rod 12 which carries the weight 13. This weight is located near the outer end of the rod 12 and on the inner end of the plate 10 is provided the flanged holder 15 within which is secured the supporting pad 14 of felt or similar material saturated with water so as to be moist. The action of the weight 13 is to keep the pad 14 normally in contact with the outlet of the glue reservoir.

To the upper side of the tank is secured a rod 17 which extends upwardly and rearwardly and at its outer end is bent laterally. Upon the outer end of said rod is secured the reel of paper to be coated, and 16 is a strip of paper extending downwardly from said reel through suitable opening in the bracket 4, between the slot 9 in said glue reservoir and the pad 14 and thence over the roller 18 which is supported by the yoke 19 adjustably secured to the bottom of the tank. The yoke 19 has the rearwardly turned ends 22 which pass through clips 23 secured to the bottom of the tank. One of the clips carries a set-screw 24 engaging the end 22 to hold the yoke in adjusted position. By means of this arrangement, the distance between the glue discharging opening and the roller 18 can be regulated. This varies the distance that the strip must travel from the point when the glue is applied to the strip to the taping machine. This can be changed as desired so as to give the glue more or less time to solidify, depending on atmospheric conditions.

From the roller 18, the paper which is coated with glue is carried to the veneering machine as shown in Fig. I or wherever it is desired to use it.

20 indicates a nozzle closed by a screw cap

through which the water jacket may be filled with hot water. This may be drained out from the jacket through the pet cock 21.

As I have already indicated, the paper to be glued is fed down from the reel through an opening in the bracket 4, over the top of the wiping pad 14 and beneath the slot-like opening 9. The glue is discharged through the opening and covers the upper surface of the paper and the pad 14 serves to support the paper at this point. From the pad the paper is carried over roller 18 and thence downwardly to the veneering machine where it is delivered with the glued side down.

In Fig. V I have shown a modification in which the plate 10 is provided with upstanding ears 25 in which there is journaled the rod or pin 26 carrying a felt roller 27 which is adapted to normally engage the discharging slot in the bottom of the glue tank. As will readily be seen this felt roller may be used in place of the rectangular felt pad 14 shown in Fig. III.

I am aware that the structure which I have here shown is susceptible of considerable variation without departing from the spirit of my invention and I, therefore, do not wish to be restricted to it. I have shown this device used in connection with a veneer taping machine, but it will be evident that it is adapted to use in any sort of work in which the use of gummed tape is required. However, this particular embodiment is to be preferred and, I, therefore, desire to claim the same specifically as well as broadly, as indicated by the appended claims.

I have shown the device furnished with a water jacket for warming and melting the glue. It will be evident that any other suitable device might be used for this purpose, such as an electric heating device for example.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a device of the class described, the combination of a glue tank, a water jacket surrounding the same, a discharging slot at the bottom of said tank, brackets secured to said tank, a plate pivoted on said brackets, a pad of felt secured to said plate in alinement with said discharging slot, a rearwardly ex-

tending rod secured to said plate, a weight on the rear end of said rod, adapted to keep the pad normally in engagement with the bottom of the tank, a bracket adjustably secured to the bottom of the water jacket, a roller supported on said bracket in alinement with said pad, and an arm extending upwardly and rearwardly from said tank for supporting a reel of paper, all coacting substantially as described for the purpose specified.

2. In a device of the class described, the combination of a glue tank, a discharging slot at the bottom of said tank, brackets secured to said tank, a plate pivoted on said brackets, a pad of felt secured to said plate in alinement with said discharging slot, a rearwardly extending rod secured to said plate, a weight on the rear end of said rod, adapted to keep the pad normally in engagement with the bottom of the tank, a bracket adjustably supported, a roller supported on said adjustable bracket in alinement with said pad, all coacting substantially as described for the purpose specified.

3. In a device of the class described, the combination with a supporting bracket, of a glue tank hingedly carried thereby, a narrow discharging slot at the bottom of said tank, a plate pivotally secured to said tank, a pad of felt carried by said plate in alinement with said slot, means holding said pad normally in engagement with the bottom of said tank, a bracket adjustably secured to the bottom of said tank, and a roller carried thereby, all coacting substantially as described for the purpose specified.

4. In a device of the class described, the combination of a glue tank having a discharge slot in the bottom thereof, and a roller adjustably supported whereby the distance between said roller and said slot can be varied to time the solidifying of said glue, all coacting substantially as described and for the purpose specified.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

ALFRED A. DENNIS. [L. S.]

Witnesses:

JOHN L. BUCHANAN,
ALICE BIDDLE.