March 29, 1949. W. L. STEEN 2,465,941

GLUING DEVICE

Filed July 7, 1945 2 Sheets-Sheet 1

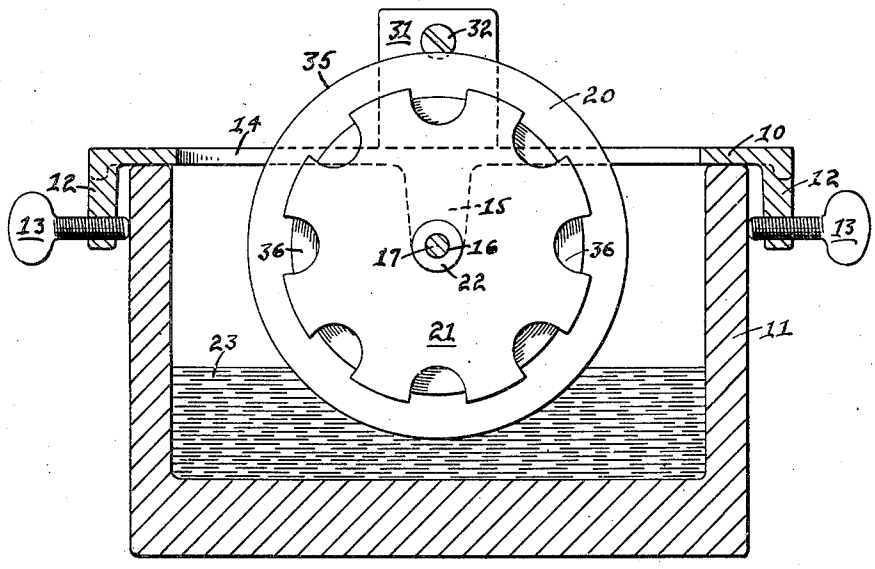


FIG. 1.

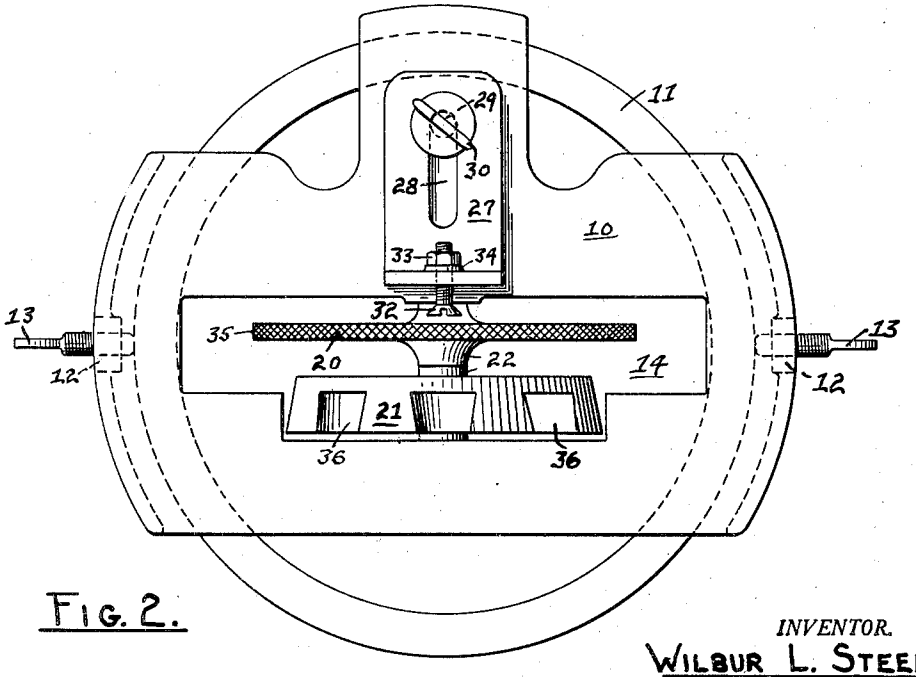


FIG. 2.

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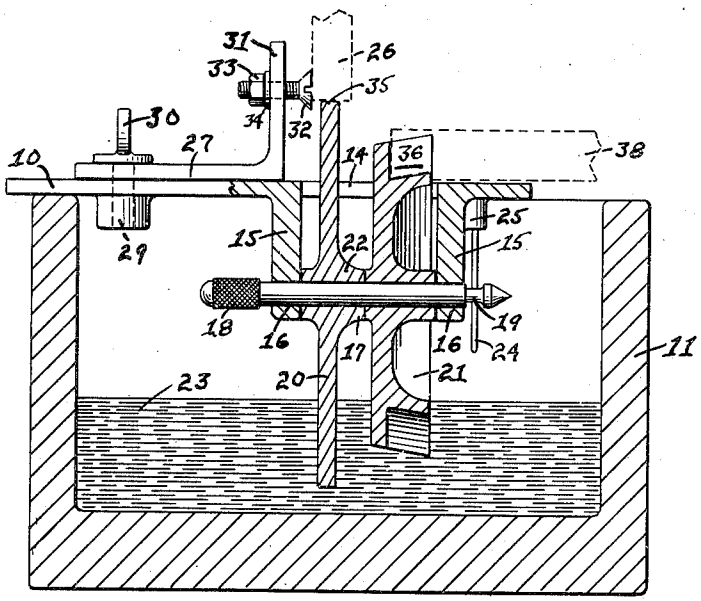


FIG. 3.

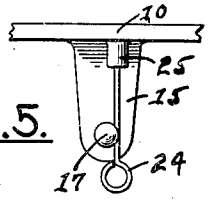


FIG. 5.

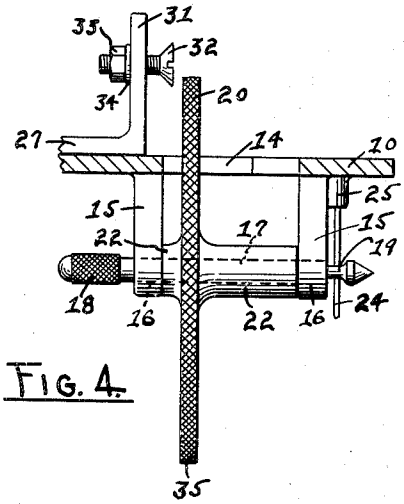


FIG. 4.

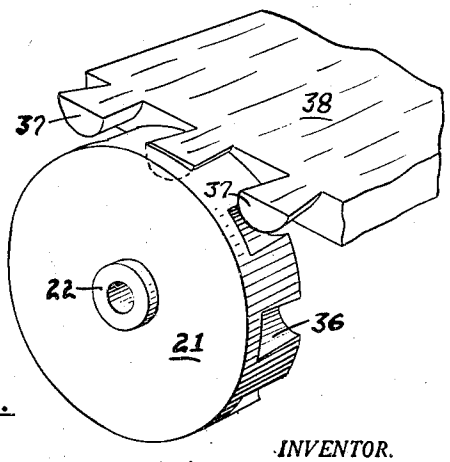


FIG. 6.

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UNITED STATES PATENT OFFICE

2,465,941

GLUING DEVICE

Wilbur L. Steen, Grand Rapids, Mich.

Application July 7, 1945, Serial No. 603,645

1 Claim. (Cl. 144—280)

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The present invention relates to a gluing device and more particularly to a device for gluing an edge of molding, beading, a plurality of spaced tenons and the like immediately prior to securing the glued work to a panel, door face, drawer end or the like.

The primary objects of the instant invention are to provide a device of the general character above indicated which is efficient and utilitarian in use; to provide such a device which quickly and conveniently faces a surface to be glued with a facing of wet glue; and, to provide such a device which is reasonably economical in manufacture.

An illustrative embodiment of the invention is shown in the accompanying drawings, wherein:

Figure 1 is a vertical sectional view of a glue pot and the gluing device detachably secured to the upper opposite sides of the glue pot;

Figure 2 is a top plan view thereof;

Figure 3 is a vertical sectional view transverse of the sectional view of the glue pot and the gluing device shown in Figure 1, the manner of applying a facing of wet glue to the work being illustrated in dotted lines;

Figure 4 is an end elevational view of one form of a rotatable gluing wheel;

Figure 5 is a side elevational view of means for detachably securing a selected form of gluing a wheel on its supporting shaft; and

Figure 6 is a perspective view of another form of rotatable gluing wheel adapted to provide a facing of wet glue to a plurality of spaced tenons of a piece of work.

Referring then to the drawings wherein like parts of the device shown are designated by the same numerals in the several views, a horizontally disposed supporting plate 10 adapted to rest upon the mouth of a glue pot 11 is provided with oppositely disposed depending ears 12 adjacent the opposite upper and outer sides thereof and the end of a shank of a screw threaded wing bolt 13 within a screw threaded aperture of each ear is adapted to engage the outer opposite sides of the glue pot for detachably securing the supporting plate 10 thereto.

The supporting plate is provided with an elongated opening 14 and with a pair of spaced depending brackets 15 on opposite sides of the opening and medially of the length thereof. The depending brackets are provided with axially aligned shaft receiving apertures 16 and a shaft 17 having a knurled head 18 and an annular groove 19 at its other end may be removably inserted within the axially aligned shaft receiving apertures.

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One or more gluing wheels 20, 21 are each provided with a hub portion 22 provided with a bore to receive the removable shaft 17 which rotatably supports the several gluing wheels within the glue pot 10 for contact of a portion of the periphery of each gluing wheel with the glue 23 therein.

Means for tensionally detachably securing the gluing wheel supporting shaft 17 within the aligned shaft receiving apertures 16 comprises a depending elongated spring 24 secured to a depending stud 25 integrally formed with the supporting plate 10, a portion of the length of which spring is adapted to seat within the annular groove 19 of the shaft when inserted within the axially aligned apertures.

A guide for an elongated piece of work 26 to be faced with wet glue is here shown as comprising an L-shaped bracket whose horizontally disposed portion 27 lies upon the supporting plate 10 and is provided with a longitudinal slot 28 adapted to receive an upstanding screw threaded shank 29 to which is screw threadedly secured a wing nut 30 for longitudinally adjustably securing the bracket to the supporting plate. The vertically disposed portion 31 of the bracket is provided with a horizontally disposed screw threaded guide bolt 32 and a nut 33 screw threadedly secured to the shank of the bolt, and its lock washer 34 provide guide adjusting means for certain types of work which it is desired to face with a layer of glue.

The gluing wheel 20 is here shown as provided with a knurled periphery 35 which forms a plurality of wells adapted to pick up and retain an amount of glue during rotation of the wheel and the periphery of the gluing wheel 21 is there shown as provided with a plurality of radially disposed mortices 36 each forming a well adapted to pick up and retain an amount of glue during the rotation thereof and each adapted to receive a tenon 37 of a piece of work 38.

Operation

In operation, enough glue is poured into the glue pot 11 to cover the periphery of each wheel during the rotation thereof and in instances wherein it is desired to provide an edge surface of a length 26 of molding, beading or the like with a facing of wet glue, the molding or beading is rested upon the knurled periphery 35 of the gluing wheel 20 and moved thereon and adjacent the guide bolt 32 causing the wheel to

rotate to thereby spread a layer of wet glue thereon.

In instances wherein it is desired to provide a plurality of tenons **37** of a piece of work **38** with a facing of wet glue, a tenon is inserted in a mortice **36** of the gluing wheel **21** which work when moved thereon causes the wheel to rotate to thereby glue each succeeding tenon as it enters and engages its complementary mortice.

It will thus be seen that the gluing device herein illustrated and described is efficient and utilitarian in use, quickly and conveniently faces a surface to be glued with a facing of wet glue and is reasonably economical in manufacture.

While but several specific embodiments of the invention have been herein shown and described, it will be understood that certain details of the constructions shown may be altered or omitted without departing from the spirit of the invention as the same is defined in the following claim.

I claim:

A gluing device having a supporting plate adapted to be secured over the mouth of a glue pot and provided with an opening therethrough

and having a pair of spaced depending ears on opposite sides of the opening provided with axially aligned bores, a shaft removably disposed within the aligned grooves having a head and an annular groove at its other end, means for detachably securing the shaft within the aligned bores comprising an elongated spring dependingly secured to the plate adapted to seat within the annular groove, and a gluing wheel rotatably supported on the shaft within the opening and having a portion thereof adapted to contact liquid glue within the pot.

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