Oct. 30, 1923. 1,472,735

J. V. PIZZINO

WALL PAPERING MACHINE

Filed April 12, 1922 2 Sheets-Sheet 1

FIG. 1.

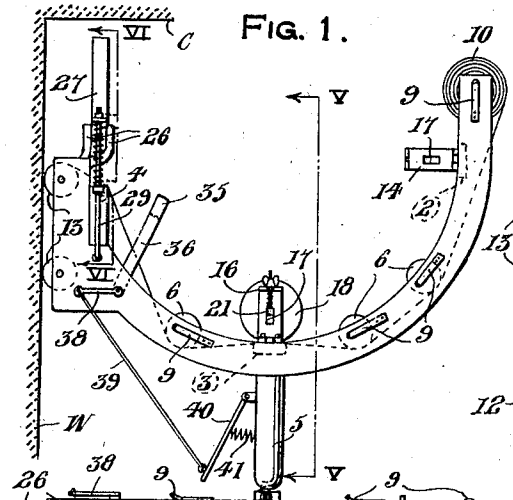


FIG. 3.

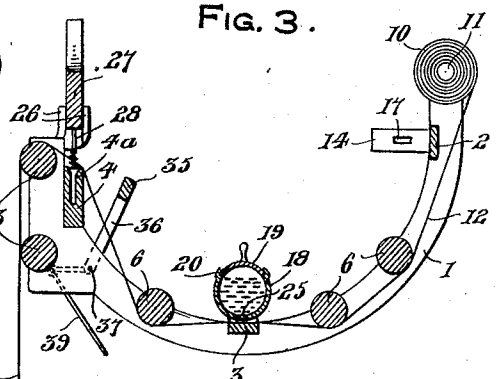


FIG. 2.

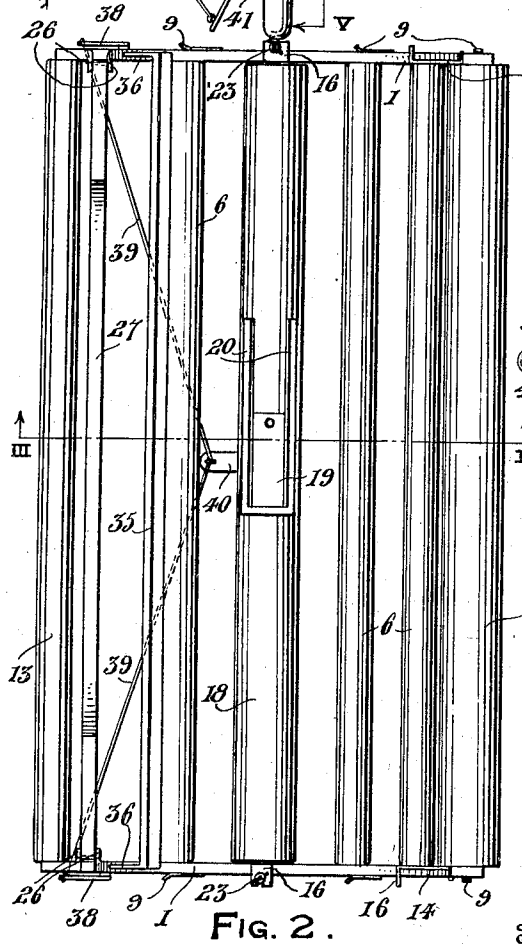
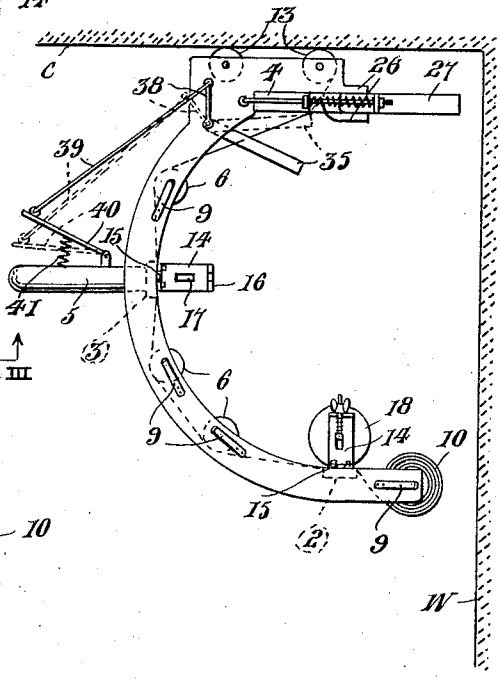


FIG. 4.



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FIG. 5.

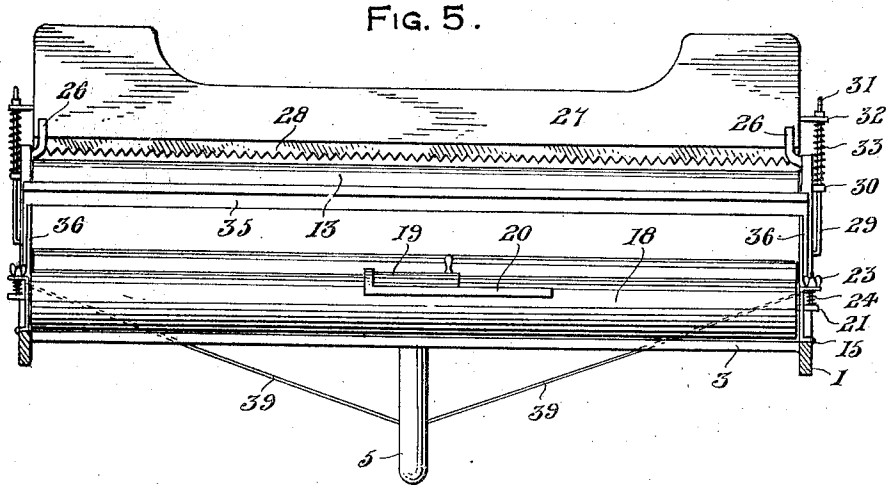


FIG. 6.

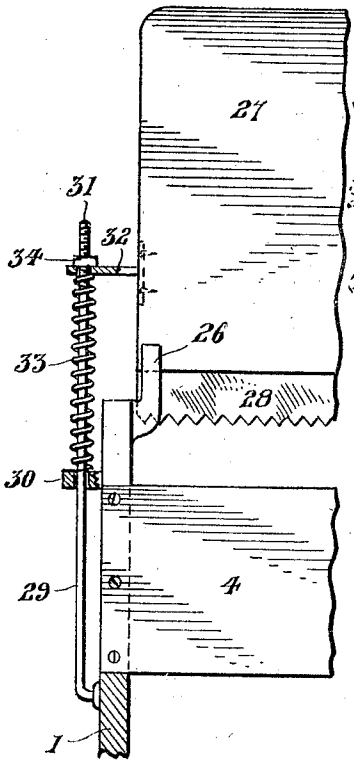


FIG. 7.

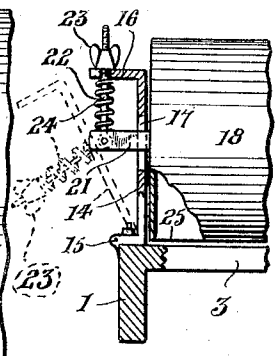


FIG. 8.

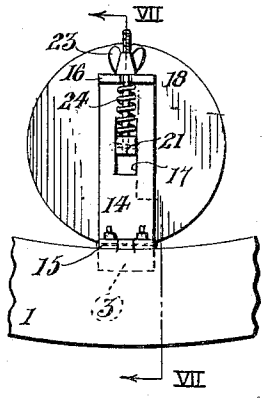
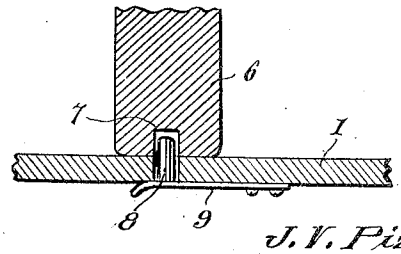


FIG. 9.



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UNITED STATES PATENT OFFICE.

JAMES V. PIZZINO, OF MERCER, PENNSYLVANIA.

WALL-PAPERING MACHINE.

Application filed April 12, 1922. Serial No. 551,759.

To all whom it may concern:

Be it known that I, JAMES V. PIZZINO, a subject of the King of Italy, residing at Mercer, in the county of Mercer and State of Pennsylvania, have invented certain new and useful Improvements in Wall-Papering Machines, of which the following is a specification.

This invention relates to certain new and useful improvements in wall papering machines and has particular reference to the provision of a portable machine which is hand operated and moved over the walls and ceiling of a room during the application of the strip of wall paper to the wall.

The primary object of the invention resides in the provision of a portable wall papering machine wherein a roll of paper is rotatably supported in the machine and caused to travel over guide rollers and in contact with a paste containing cylinder with means carried by the machine adapted for automatic operation in the severance of the strip of paper when the machine has moved the entire distance for applying a strip of paper to a wall or ceiling.

Another object of the invention has reference to a portable wall papering machine wherein a paste containing cylinder is adapted to be supported at different points on the machine for either applying the strip of paper to a wall or ceiling.

The invention further includes in a wall papering machine, a device for trimming or removing the selvage edge of the paper prior to the mounting of a roll in the papering machine.

With the above general objects in view and others that will appear as the nature of the invention is better understood, the same consists of the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the accompanying drawings, wherein like reference characters designate corresponding parts throughout the several views.

Fig. 1 is an end elevational view of a portable wall papering machine constructed in accordance with the present invention, the same being illustrated in applying a strip of paper to a wall and showing the arm for tensioning the said strip of paper and the severing or cutting blades for the paper,

Fig. 2 is a top plan view of the machine showing the paste containing cylinder and the slide cover for closing the filling opening of the cylinder,

Fig. 3 is a cross sectional view taken on line III—III of Figure 2 showing the arcuate end frame, paste containing cylinder, guide rolls for the paper and the blade for severing the paper,

Fig. 4 is an end elevational view of the device showing the position occupied by the same when applying a strip of paper to a ceiling with the paste cylinder supported at a different point of the same,

Fig. 5 is a cross sectional view taken on line V—V of Fig. 1 showing the cutting blade,

Fig. 6 is a fragmentary elevational view of a portion of the machine showing the cutting blades and resilient mounting therefor,

Fig. 7 is a cross-sectional view taken on line VII—VII of Fig. 8, showing the resilient mounting for the paste roller and the manner of removing the same from the frame,

Fig. 8 is a fragmentary end elevational view of the device showing the bearing for the paste cylinder and,

Fig. 9 is a detail sectional view showing the removable mounting for the guide rollers,

Referring more in detail to the accompanying drawings, and particularly to Figs. 1 to 5 there is illustrated a portable wall papering machine particularly designed for applying strips of paper either to a wall or ceiling, the machine embodying a frame including end bars 1 of substantially semi-circular formation connected by strips 2 and 3 and a cutting block 4, a manipulating handle 5 being secured centrally of the middle connecting strip 3. A plurality of guide rollers 6 is removably journaled in the arcuate end bars 1, the bearing for one of the rollers being shown in detail in Fig. 9 as having an axial socket 7 in the end thereof for the reception of a pin 8 carried by a spring finger 9 secured to the outer face of the end bar and extending through an opening in said bar as clearly illustrated, the guide rollers 6 being removable from

the machine for the purpose of cleaning or otherwise. A roll of wall paper 10 supported upon a core 11 is journaled in the upper one of the end bars 1 adjacent the connecting strip 2 and has a journal bearing similar to the bearing for the guide rollers 6.

The strip of paper 12 is delivered from the roll 10 under the guide rollers 6 as shown in Figs. 1, 3 and 4 and over the middle connecting strip 3, the strip of paper continuing and passing over the cutting block 4 and outwardly of the wall engaging rollers 13 journaled in the ends of the end bars adjacent the cutting block 4 as shown in Fig. 3.

A paste receptacle is removably mounted upon the machine frame, brackets therefor being clearly shown in Figs. 3, 4, 7 and 8 supported on the arcuate end bars 1 adjacent the connecting strips 2 and 3 for selective mounting of the paste receptacle, each bracket including an arm 14 pivotally mounted at its lower end as at 15 to the end bars 1, the upper end of the bracket arm 14 being bent outwardly as at 16, while the vertical leg of the bracket is provided with an elongated slot 17 for purposes presently to appear. The paste receptacle includes a tubular member 18 having a filling opening in the upper side thereof as shown in Figs. 2 and 3 and is closed by a cover slide 19 guided by the cleats 20. Each end of the paste tube carries a polygonal pin extension 21 shown clearly in Figs. 7 and 8 extending through the elongated slots 17 in the bracket arm 14, the outer end of each pin carrying a pivoted screw bolt 22 extending through an aperture in the bracket extension 16 with a thumb nut 23 threaded upon the upper end thereof for regulating the tension of the spring 24 surrounding the screw pin between the extension 16 and the tube pin 21. As shown in Figs. 3 and 7 the bottom wall of the tube 18 is provided with a slotted opening 25 for the passage of paste contained in the tube and to the paper strip 12 passing over either of the connecting strips 2 or 3.

The reciprocably mounted cutting blade is carried by the upper ends of the arcuate end bars 1 adjacent the cutting blocks 4, said arcuate bar ends carrying inwardly directed guide brackets 26 between which the bar 27 is slidably mounted, the inner edge of the bar carrying a toothed cutting blade 28, the bar 27 and cutting blade 28 being aligned with the cutting block 4 with the cutting blade 28 adapted to be moved into the elongated recess 4^a located in the upper end of the cutting block, the mounting for the bar 27 and cutting blade 28 including a rod 29 secured at its lower end to the end bars 1 at the outer sides thereof, the rods 29 lying in the same vertical plane as the cutting block and bar 27. Each rod 29 extends through a guide block 30 carried by the adjacent end bar 1 and has the threaded upper end 31 thereof extending through an opening in a bracket arm 32 projecting outwardly from the adjacent end of the bar 27, as clearly shown in Fig. 6. A coil spring 33 surrounds the rod 29 between the bracket guide 30 and the bracket arm 32 with a nut 34 threaded upon the upper end 31 of the rod for regulating the tension of the spring 33, the springs being employed for normally forcing the bar 27 and cutting blade 28 at their limit of movement away from the cutting block 4.

Means is provided for placing the strip of paper under tension at the time of severing the strip, and includes a U-shaped presser bar having a longitudinal bar portion 35 carrying end extensions 36 that are pivotally mounted as at 37 to the end bars 1 at a point beneath the cutting block 4, the pivot bearings 37 of the presser bar carrying levers 38 to which one end of a link 39 is connected. The two links extending from the levers 38 have the other ends directed toward the handle 5 for attachment to a trip handle 40 pivoted to the handle 5 and tensioned by the springs 41 that normally move the trip handle outwardly of the handle 5 to displace the pressure bar 35 from engagement with the strip 12 of the paper roll.

From the above detailed description of the device, it is believed that the construction and operation will at once be apparent, it being noted that the roll of paper 10 journaled in the upper ends of the arcuate bars 1 has the strip 12 therefrom passed beneath guide rollers 6 and over and above the connecting strip 3 for receiving paste from the tubular receptacle 18. The strip 12 passes beneath the presser bar 35 and above the cutting block 4, and over the presser rollers 13. When applying a strip of paper to the wall W, shown in Fig. 1, the machine is grasped by the handle 5 with the presser rollers 13 causing the paper strip 12 to adhere to the wall W. The cutting blade 28 is automatic in its operation, and when the bar 27 engages the ceiling C, the same is moved downwardly to cause the blade 28 to enter the recess 4^a of the cutting block and sever the strip 12 of the paper roll, the cutting blade moving against the tension of the springs 33 and subsequently being restored to a spaced position relative to the cutting block when the bar 27 is disengaged from the ceiling C. When the bar 27 is moved into proximity of the ceiling C, the handle lever 40 is moved against the tension of the spring 31 to cause the presser bar 35 to engage the strip 12 and hold the same in a taut condition during the cutting operation, disengagement of the handle lever 40 dis-

placing the presser bar from engagement with the strip. The removable mounting for the guide rollers 6 and the paste cylinder 18 provides for a ready substitution of the parts, and also will permit their removal for cleaning purposes.

When the machine is to be used for applying a strip of paper to the ceiling C as shown in Fig. 4, the paste cylinder is removed from the intermediately positioned bracket arms 14 and placed in the bracket arms at the ends of the end bars 1 adjacent the paper roll 10 such mounting insuring the proper feeding of the paste to the paper strip 12 and also properly positioning bar 27 for engagement with the wall W for the purpose of severing the strip 12 at the proper time.

Having thus described the invention, what I claim is:—

1. A portable wall papering machine comprising a frame having arcuate end bars, connecting strips for the end bars, a cutting block extending between the end bars, a paste containing cylinder selectively mounted over either of the connecting strips, a cutting blade reciprocably mounted upon the frame and associated with the cutting block, and manually operable tensioning means for the strip of paper fed through the machine.

2. A portable wall papering machine comprising a frame having arcuate end bars, connecting strips for the end bars, a cutting block extending between the end bars, a paste containing cylinder selectively mounted over either of the connecting strips, a cutting blade reciprocably mounted upon the frame and associated with the cutting block, and manually operable tensioning means for the strip of paper fed through the machine, said cutting blade being automatically operated when the machine is shifted to its limit of movement over the wall or ceiling.

3. A portable wall papering machine comprising a frame having arcuate end bars, connecting strips for the end bars, a cutting block extending between the end bars, a paste containing cylinder selectively mounted over either of the connecting strips, a cutting blade reciprocably mounted upon the frame and associated with the cutting block, and guide rollers for the strip of paper removably mounted in the end bars.

4. A portable wall papering machine comprising a frame having arcuate end bars, connecting strips for the end bars, a cutting block extending between the end bars, a paste containing cylinder selectively mounted over either of the connecting strips, a cutting blade reciprocably mounted upon the frame and associated with the cutting block, manually operable tensioning means for the strip of paper fed through the machine, and guide rollers for the strip of paper removably mounted in the end bars.

5. A portable wall papering machine comprising a frame having arcuate end bars, connecting strips for the end bars, a cutting block extending between the end bars, a paste containing cylinder selectively mounted over either of the connecting strips, a cutting blade reciprocably mounted upon the frame and associated with the cutting block, said cutting blade being automatically operated when the machine is shifted to its limit of movement in engagement with the wall or ceiling, and guide rollers for the strip of paper removably mounted in the end bars.

6. A wall papering machine of the type described comprising arcuate end bars, connecting strips extending between the end bars, a cutting block secured at its ends to the end bars, a paste containing cylinder selectively positioned over either of the connecting strips, a bar reciprocably mounted upon the end bars, a cutting blade carried by said bar and movable toward the cutting block, tensioning means for said bar, guide rollers carried by the end bars for directing a strip of paper through the machine and manually operable means engaging the strip of paper for tensioning the same.

7. A wall papering machine of the type described comprising arcuate end bars, connecting strips extending between the end bars, a cutting block secured at its ends to the end bars, a paste containing cylinder selectively positioned over either of the connecting strips, a bar reciprocably mounted upon the end bars, a cutting blade carried by said bar and movable toward the cutting block, tensioning means for said bar, guide rollers carried by the end bars for directing a strip of paper through the machine and manually operable means engaging the strip of paper for tensioning the same during the operation of the cutting blade, the cutting blade being automatically operated by the bar carrying the same engaging either a wall or ceiling at the limit of movement.

8. A wall papering machine of the type described comprising arcuate end bars, connecting strips extending between the end bars, a cutting block secured at its ends to the end bars, a paste containing cylinder selectively positioned over either of the connecting strips, a bar reciprocably mounted upon the end bars, a cutting blade carried by said bar and movable toward the cutting block, tensioning means for said bar, guide rollers carried by the end bars for directing a strip of paper through the machine, manually operable means engaging the strip of paper for tensioning the same during the operation of the cutting blade, the cutting blade being automatically operated by the bar carrying the same engaging either a wall or ceiling at the limit of movement, the mounting for the paste cylinder including a

hinged bracket arm carried by the end bars, and bearing pins carried by the ends of the cylinder mounted in said bracket arms extending between said pins and the bracket arms.

9. A wall papering machine of the type described comprising arcuate end bars, connecting strips extending between the end bars, a cutting block secured at its ends to the end bars, a paste containing cylinder selectively positioned over either of the connecting strips, a bar reciprocably mounted upon the end bars, a cutting blade carried by said bar and movable toward the cutting block, tensioning means for said bar, guide rollers carried by the end bars for directing a strip of paper through the machine, manually operable means engaging the strip of paper for tensioning the same during the operation of the cutting blade, the cutting blade being automatically operated by the bar carrying the same engaging either a wall or ceiling at the limit of movement, the mounting for the paste cylinder including a hinged bracket arm carried by the end bars, bearing pins carried by the ends of the cylinder mounted in said bracket arms extending between said pins and the bracket arms, the mounting for the guide rollers having spring clips carried by the end bars, bearing pins carried by said clips extending through said end bars and upon which the ends of said rollers are journaled.

In testimony whereof I affix my signature.

JAMES V. PIZZINO.