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PORTABLE DEVICE FOR PASTING WALLPAPER

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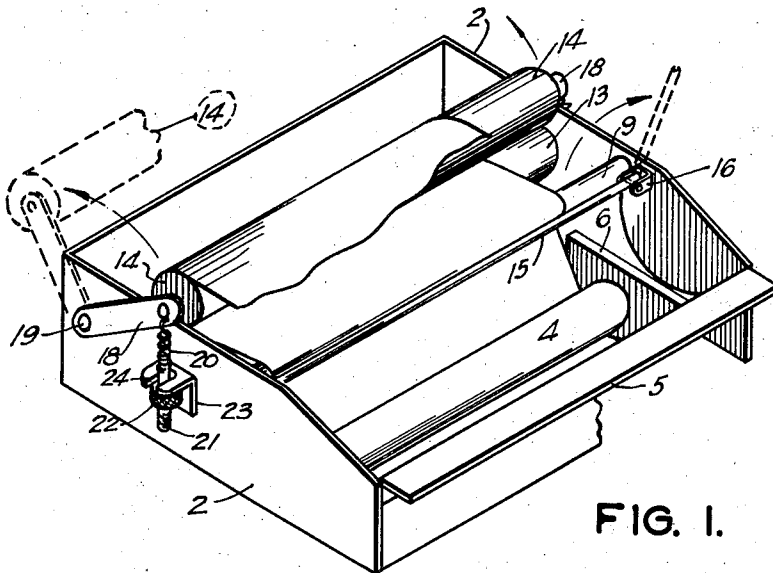


FIG. 1.

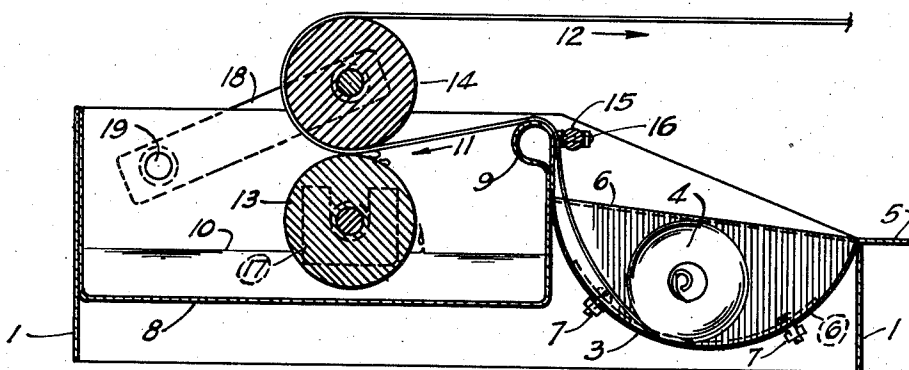


FIG. 2.

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PORTABLE DEVICE FOR PASTING
WALLPAPER

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3 Claims. (Cl. 91-51)

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My invention relates to a portable device for pasting wall paper, wherein the paste is applied to the back of the paper by pulling the said paper manually through the device.

The principal objects of my invention are to provide a device of this character which is positive in action, simple and inexpensive in construction; new, novel and easily manipulated; which is strong, durable, reliable and of evident utility; which has nothing to get out of order and is efficient for the purposes for which it is intended; to provide a portable device for smoothly, evenly and thoroughly pasting the wall paper as fast as the said paper is drawn through the contrivance; to provide a trough, adjustable in length for different widths of paper; to provide a pair of rollers for applying and spreading the paste; to provide a unitary paste tank, bead roll and paper trough.

With these and other objects in view my invention consists of the construction, novel features and combination of parts herein more fully described, illustrated in the accompanying one-sheet drawing and pointed out in the claims hereto appended. Various changes in the form, proportion, size, shape, weight and minor details of construction, within the scope of my invention may be resorted to without departing from the spirit or broad principle of my invention or sacrificing any of the advantages thereof.

In the accompanying drawing Figure 1 is a perspective view of the device; Fig. 2 is a section thereof.

Like reference numbers refer to like parts in both figures.

One embodiment of my invention is shown as follows: The supporting sheet metal frame 1 and enclosing ends 2 sustain the interior members. The paper trough 3 is the container for the roll of wall paper 4. The said trough 3 has an integral stiffening and supporting flange 5. At one end of the said paper trough 3, I provide a movable baffle plate 6 to adjust the length dimension of the said trough to different widths of wall paper. Bolts 7 secure the baffle plate 6 in any desired position. The tank 8 is the container for paste or adhesive. At 9 I provide a bead or roll over which the wall paper 4 is drawn to remove any kinks or wrinkles. The paper moves in the direction indicated by the arrow 11.

The lower roller 13 is partly immersed in the paste in tank 8 and is the means for applying the paste to the back of the wall paper 4. The upper roller 14 acts as a squeegee, and spreads

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the paste evenly and uniformly over the paper. Guide bar 15 is positioned in near contact with bead 9 formed in a roll between trough 3 and paste tank 8. The said bar 15 acts as a brake on the unrolling paper 4 and holds and directs the unruly last part of the said roll 4 so as to pass between rollers 13 and 14 without getting out of bounds. The said guide bar 15 is hingedly secured at one end in bracket 16 and may be swung to one side as shown by the arrow and dotted fragment in Fig. 1. The free end of the said guide bar 15 may be secured in place by any suitable means such as a friction catch, or the like.

The lower pasting roller 13 is provided with an axle and revolves in bearing 17 attached to the inside of enclosing ends 2. The upper squeegee roller 14 revolves at one end of hinged strap bearings 18. The other ends of the said strap bearings 18 are pivoted to the outside of enclosing ends 2 at 19. This arrangement permits the said roller 14 to be swung out of contact with pasting roller 13 and away from paste tank 3 as shown by arrows and dotted fragment in Fig. 1.

Positive contact between rollers 13 and 14 is secured by means of tension springs 20, adjusting screws 21 and thumb nuts 22 as can readily be seen in Fig. 1. Brackets 23 attached to end members 2 are provided with open slots 24 so that the said thumb nuts 22 and adjusting screws 21 can be instantly disconnected from brackets 23 when it is desired to position the roller 14 out of contact with roller 13.

In using my invention, the roll of wall paper is placed in trough 3, it is partly unrolled, passed over bead 9 whereupon guide bar 15 is swung into contacting position. The unrolling strip is pulled in the direction indicated by the arrow 11 until end of said strip is past the center of roller 13. Roller 14 is swung into position contacting the said strip, thumb nuts 22 are seated under brackets 23 and adjusted to give proper tension in springs 20. The strip of wall paper is drawn around roller 14 and in the direction shown by arrow 12 to the trimming and cutting table where the edges are trimmed and the strip is cut to the right length for applying to walls and ceiling of the room being papered. The stiffening and supporting flange 5 rests on one end of the trimming table which is not shown as it forms no part of this invention. The pasting roller 13 picks up paste from tank 8 and applies the paste automatically to the back of the wall paper as fast as the strip is pulled through the

rollers. The pasted side of the paper is on top when the strip reaches the trimming table and no paste contacts the printed front of the said strip.

While this specification has described my invention as applying to wall paper in particular it is understood that I do not confine its use to wall paper only as it may be used for pasting any kind of paper or fabric of ordinary width when put up in rolls.

By studying the cross-section in Fig. 2 it can be seen that the supporting members 1, paste tank 8, bead 9, trough 3 and flange 5 are all formed from a single strip of sheet metal. The end pieces 2 and baffle plate 6 are separate pieces.

The rollers may be made of wood, plastic or other suitable material. Any appropriate sheet metal such as tin, galvanized iron, aluminum or the like, constitutes the major part of my portable device and this assures its light weight. As can be seen from the foregoing I have produced a light, inexpensive, efficient, portable device for saving time and labor in applying wall paper.

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

1. In a portable device for pasting wall paper, a unitary sheet metal supporting frame, supporting flange, paper trough, bead roll and paste tank, and enclosing members for the aforesaid parts and a movable baffle plate for the said paper trough to adjust its length for different widths of paper.

2. In a device of the class described, a unitary sheet metal supporting frame, supporting flange, paper trough, bead roll and paste tank, end enclosing members for the aforesaid parts, a movable baffle plate for the said paper trough to adjust its length for different widths of paper, a hinged guide bar mounted adjacent the said bead roll to act as a brake and controlling means for the unrolling paper, a pasting roller adapted for seating in the said paste tank, an axle for the said pasting roller and bearings for the same, a squeezing and paste spreading roller

for seating above and contacting the first named roller and tension means on the second named roller for controlling the film of paste being applied to the paper passing between the said two rollers.

3. In a portable pasting device, the combination of a unitary sheet metal supporting frame, supporting flange, paper trough, bead roll and paste tank; and enclosing members for the aforesaid parts; a movable baffle plate for limiting the length of the said paper trough; a hinged guide bar mounted adjacent the said bead roll acting as a brake and controlling means for the unrolling paper; a pasting roller for seating in the said paste tank and applying paste to the back of the paper; axle and bearing means within the said end enclosing members for the said pasting roller; a squeezing and paste spreading roller for operating in coaction with the said pasting roller; adjustable tension means for said squeezing and spreading roller for controlling the film of paste being applied to the paper passing between the two said rollers; axle and hinged strap bearings for the said paste spreading roller without the said end enclosing members, pivot means on the said strap bearings whereby the said paste spreading roller can be revolved out of contact with the pasting roller; and slotted brackets on the outside of the said end enclosing members adapted for seating and quickly unseating the said adjustable tension means when the said spreading roller is revolved into inoperative position.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
87,545	Clay	Mar. 9, 1869
160,375	Worley	Mar. 2, 1875
471,958	Danforth	Mar. 29, 1892
951,562	Hamelstrom	Mar. 8, 1910