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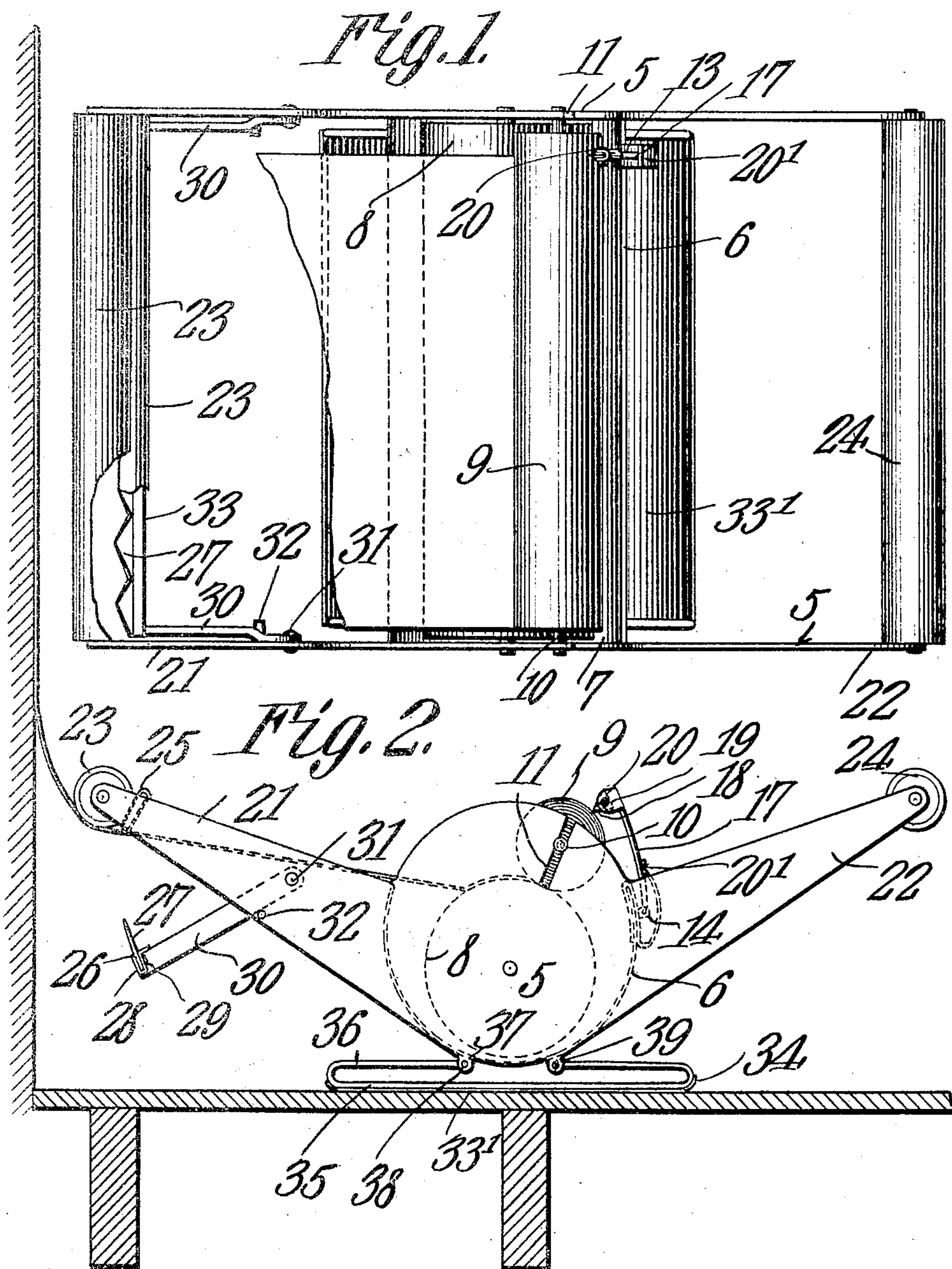
PATENTED JULY 28, 1908.

N. M. PURVIANCE.

WALL PAPER MACHINE.

APPLICATION FILED AUG. 28, 1907.

2 SHEETS—SHEET 1.



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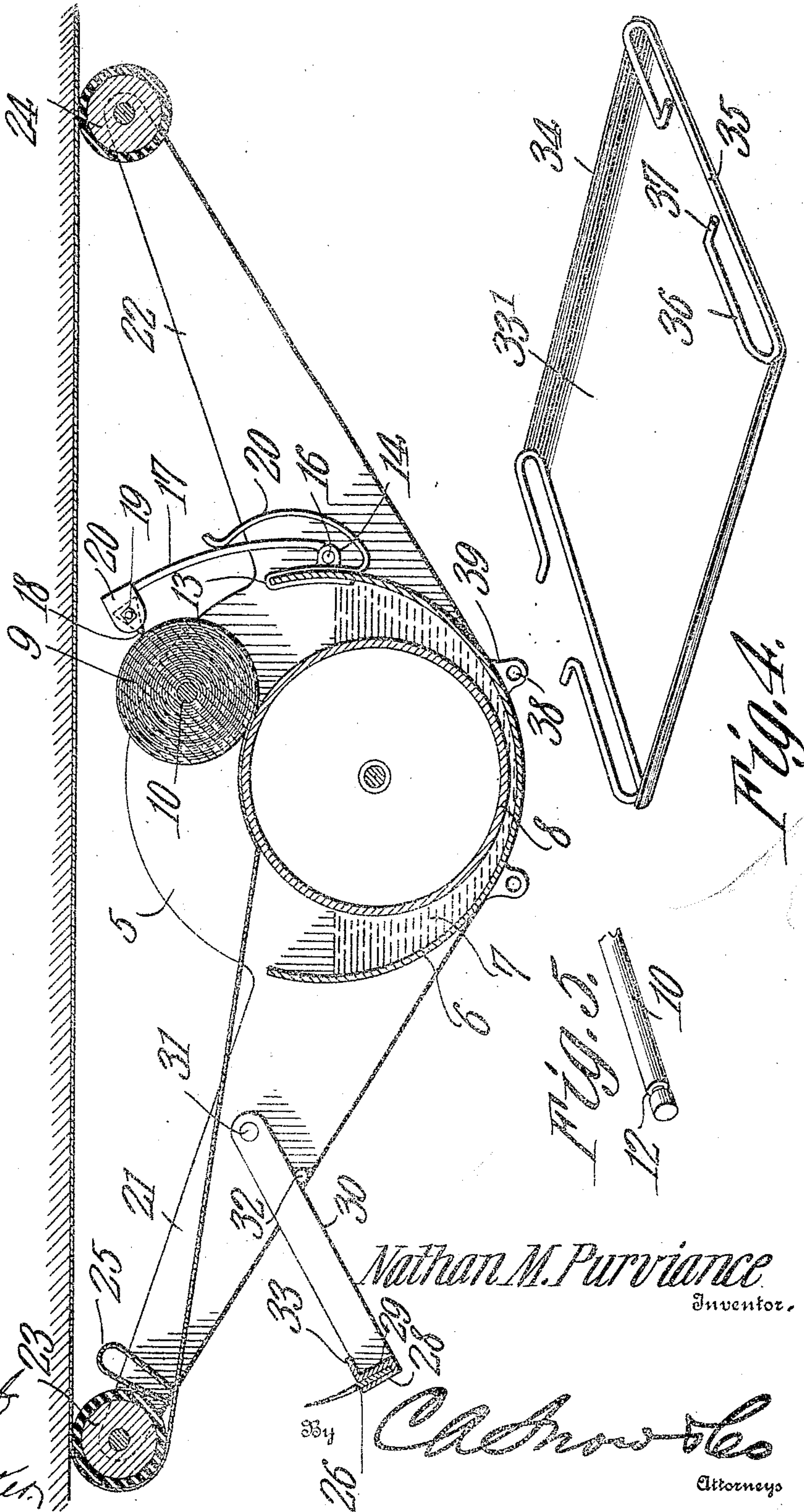
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UNITED STATES PATENT OFFICE.

NATHAN M. PURVIANCE, OF SPOKANE, WASHINGTON.

WALL-PAPER MACHINE.

No. 894,343.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed August 28, 1907. Serial No. 390,526.

To all whom it may concern:

Be it known that I, NATHAN M. PURVIANCE, a citizen of the United States, residing at Spokane, in the county of Spokane and State of Washington, have invented a new and useful Wall-Paper Machine, of which the following is a specification.

This invention relates to paper hanging machines and has for its object to provide a comparatively simple and compact machine of this character for pasting wall paper and applying the same to the ceiling or wall of a room.

A further object of the invention is to provide a yieldably supported knife for trimming the edges of the paper, said knife being adjustable transversely of the machine and provided with a plurality of cutting edges so that when one of the cutting edges becomes dull or otherwise impaired from constant use another may be presented to the paper.

A further object is to provide a pivoted cutter having a serrated cutting edge for severing the paper from the roll when the desired length of paper has been trimmed and pasted.

A further object is to provide a relatively flat base for supporting the machine on the floor of a room when the machine is employed for applying paper to the side walls, said base being detachably secured to the frame whereby said base may be quickly removed when it is desired to apply the paper to a ceiling.

A further object is to provide improved means for supporting the paper roll in engagement with the paste applying roller or drum.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a top plan view of a paper hanging machine constructed in accordance with my invention. Fig. 2 is a side elevation showing the machine in position for applying the paper to the side walls of a room. Fig. 3 is a longitudinal sectional view showing the machine in position for applying paper to the ceiling.

Fig. 4 is a perspective view of the supporting base detached. Fig. 5 is a perspective view of one end of the shaft or rod carrying the paper roll.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved machine forming the subject matter of the present invention includes a supporting frame comprising parallel side walls 5 spaced apart by a segmental plate 6 to form a trough 7 adapted to receive a quantity of the paste or other adhesive material.

Eccentrically mounted for rotation in the trough 7 is a paste roll or drum 8 for applying the paste in the trough 7 to the roll of wall paper 9. The roll of paper 9 is secured to and mounted for rotation with a transverse shaft 10 journaled in suitable slots 11 formed in the side walls 5, said slots being disposed at an angle or inclination to the vertical axis of the frame so as to assist in retaining the roll 10 in engagement with the drum 8. The opposite ends of the shaft 10 are formed with circumferential grooves 12 which engage the inner and outer faces of the walls 5 and serve to lock the roll against lateral displacement while at the same time permitting said shaft to move vertically within the slots 11.

Secured to one wall of the segmental plate 6 is an inverted U shaped clip 13 provided with a laterally extending lug 14 to which is pivotally mounted at 16 an arm or finger 17 carrying a knife or trimmer 18.

The knife or trimmer 18 is substantially triangular in shape, as shown, and is mounted for rotation between spaced ears 20 carried by the free end of the arm or finger 17, said knife being provided with one or more cutting points so that by releasing the clamping nut 19 and rotating the knife any particular cutting edge or point may be presented to the wall paper.

One leg of the clip 13 is bent upwardly to form a spring arm 20' the terminal of which is deflected laterally and bears against the finger 17 thereby to normally and yieldably support the knife 18 in engagement with the paper when trimming the latter.

The trimmer is adjustable transversely of the frame so that any desired width of paper may be cut from the edge thereof, said trimmer being retained in adjusted position by the inherent spring properties of the clip 13.

Formed integral with the side walls 5 of

the frame are spaced upwardly inclined arms 21 and 22 between which are mounted for rotation suitable presser rolls 23 and 24, the latter being preferably covered with rubber so as to present a yieldable surface to the work.

Interposed between the arms 21 and preferably disposed at the rear of the adjacent presser roller 23 is a guard or shield 25 which forms a housing for the cutting edge of a pivoted cutter 26. The cutter 26 is provided with a serrated cutting edge 27 while the base of said cutter is seated in a socket 28 formed in a transverse bar 29 connecting the pivoted links 30. The links 30 are pivotally mounted at 31 on the inner faces of the arms 21 while the downward movement of said links are limited by stop lugs 32 extending laterally from the arms 21, as shown. The cutter 26 is detachably seated in the socket 28 so that the same may be readily removed and sharpened when necessary, it being here observed that the transverse bar 29 is formed with a laterally extending flange 33 which serves to reinforce and strengthen the cutter as well as to press the paper in engagement with the base of the housing 25 when the cutter is moved upwardly to operative position.

As a means for supporting the machine on the floor when the latter is used for applying paper to the walls of a room there is provided a detachably supporting base 33' consisting of a flat piece of metal the opposite longitudinal edges of which are bent upwardly to form oppositely disposed flanges 34. Secured to the opposite transverse edges of the plate or base 33' are rods 35, the opposite ends of which are bent upon themselves to form over-hanging arms 36 terminating in laterally extending fingers 37 adapted to enter perforations 38 in suitable lugs 39 depending from the curved bottom of the paste receiving trough, as shown. The base 33' not only serves to support the machine in position on the floor during the pasting operation but also serves to catch any drippings or surplus paste from the trough when filling the latter.

In using the device for applying paper to the side walls of a room, the machine is positioned on the floor adjacent the wall to be papered after which the rod 10 carrying the paper roll is inserted in the slots 11 and a longitudinal pull exerted on the free end of the paper. As the paper roll revolves a correspondingly rotary movement will be imparted to the pasting drum so that the paste in the trough will be equally distributed over the surface of the paper. When the desired length of paper has been reeled off and applied to the wall the cutter 26 is swung upwardly within the guard or housing 25 which causes the serrated edge of the cutter to engage the paper and sever the same, as will be readily understood.

When the machine is used for applying

paper to a ceiling the base 33' is detached by exerting a slight lateral pressure on the spring arms 36 which disengages the fingers 37 from the apertures in the lugs 39. The operator then grasps the curved walls of the trough and applies one end of the paper to the ceiling after which the machine is moved longitudinally of the ceiling which causes the presser rollers 24 to bear against the paper and smooth out any wrinkles that may be formed therein thus causing the paper to adhere to the ceiling, as best shown in Fig. 3 of the drawings.

From the foregoing description it is thought that the construction and operation of the device will be readily understood by those skilled in the art and further description thereof is deemed unnecessary.

Having thus described the invention what is claimed is:

1. A paper hanging machine including a frame having a trough, the side walls of which are provided with inclined slots, a paste drum mounted for rotation in the trough, a rod disposed above the paste drum and adapted to support a roll of paper, said rod having circumferential grooves formed therein for engagement with the walls of said slots, a trimmer adjustable transversely of the frame, and presser rollers mounted for rotation on the opposite ends of the frame.

2. A paper hanging machine including a frame having a trough and provided with laterally extending arms, a paste drum mounted for rotation in the trough, means for supporting a roll of paper above and in contact with the paste drum, a trimmer adjustable transversely of the frame and adapted to yieldably engage the paper roll, presser rollers mounted for rotation between the arms, a guard interposed between the arms at one of the presser rollers, and a knife pivotally mounted between said arms and movable to operative position within the guard.

3. A paper hanging machine including a frame having a trough, a paste drum mounted for rotation within the trough, means for supporting a roll of paper above and in contact with the paste roll, a substantially U shaped clip engaging one of the walls of the trough, an arm pivotally mounted on the clip, a substantially triangular knife secured to the free end of the arm, and means for yieldably supporting the knife in engagement with the paper roll.

4. A paper hanging machine including a frame having a trough and provided with laterally and upwardly extending arms, a paste drum mounted for rotation in the trough, means for supporting a roll of paper above and in contact with the paste drum, a trimmer adapted to yieldably engage the paper roll and adjustable transversely of the frame, presser rollers mounted for rotation between

the arms at the free ends thereof, a guard interposed between two of said arms at one of the presser rollers, links pivotally mounted on the arms and connected by a transverse bar having a socket formed therein, and a cutter detachably engaging the socket and provided with a serrated cutting edge movable to operative position within the guard.

5. A paper hanging machine including a frame having a trough, a paste drum mounted for rotation within the trough, means for supporting a roll of paper in contact with the paste drum, a clip engaging one wall of the trough, an arm pivotally mounted on the clip and provided with spaced ears, a substantially triangular shaped knife mounted for rotation between said ears and provided with a plurality of cutting points adapted to be successively presented to the paper, means for locking the knife against rotation, and a spring arm forming a part of the clip and bearing against the knife carrying arm for normally and yieldably supporting the knife in engagement with the paper roll.

6. A paper hanging machine including a frame having a trough, a paste drum mounted for rotation in the trough, means for supporting a roll of paper in contact with the drum, perforated ears depending from the base of the drum, and a supporting base detachably secured to the frame and provided with laterally extending fingers adapted to engage the perforations in the ears.

7. A paper hanging machine including a frame having a trough, the walls of which are provided with depending perforated ears, a paste drum mounted for rotation within the trough, means for supporting a

roll of paper in contact with the drum, a detachable base having oppositely disposed flanges, and spring fingers extending laterally from the base and adapted to engage the perforations in the ears.

8. A paper hanging machine including a frame having a trough the exterior walls of which are provided with depending perforated ears, a paste drum mounted for rotation within the trough, means for supporting a roll of paper above and in contact with the paste drum, a base, and rods secured to the opposite edges of the base and provided with over-hanging arms terminating in spring pressed fingers adapted to engage the perforations in the ears.

9. A paper hanging machine including a frame having a trough, ears depending from the bottom of the trough, a paste drum mounted for rotation in the trough, means for supporting a roll of paper in contact with the paste drum, a trimming device, presser rollers mounted for rotation on the frame, a base having its opposite longitudinal edges bent upwardly to form oppositely disposed flanges, and rods secured to the opposite transverse edges of the base and provided with over-hanging arms the terminals of which are bent laterally to form spring fingers adapted to engage the perforations in the ears.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

NATHAN M. PURVIANCE.

Witnesses:

W. M. RAKESTRAW,
F. W. REINER.