

E. McFARLAND.
PAPER HANGING MACHINE.
APPLICATION FILED MAY 23, 1908.

953,432.

Patented Mar. 29, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

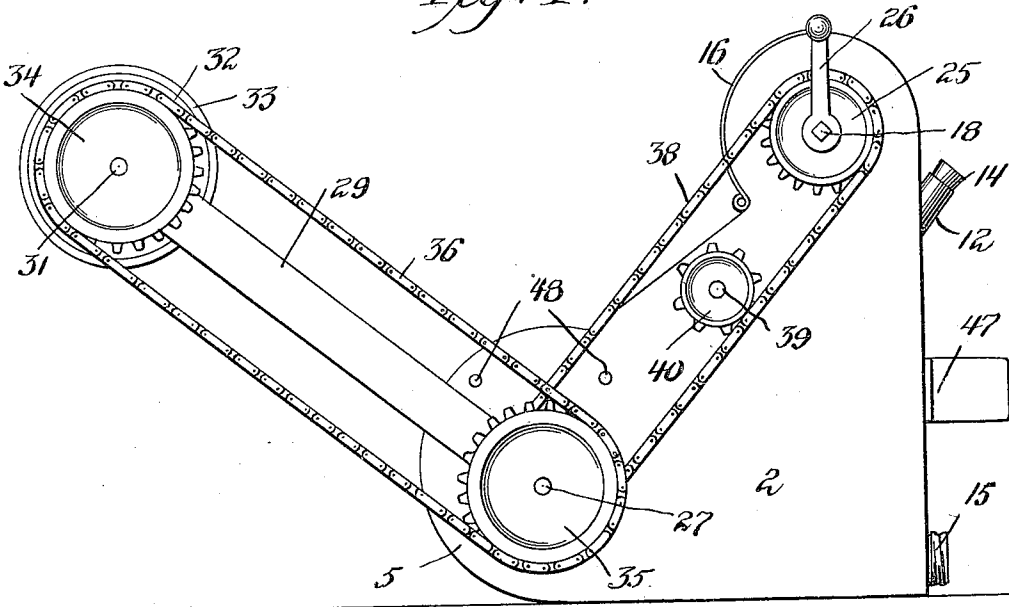
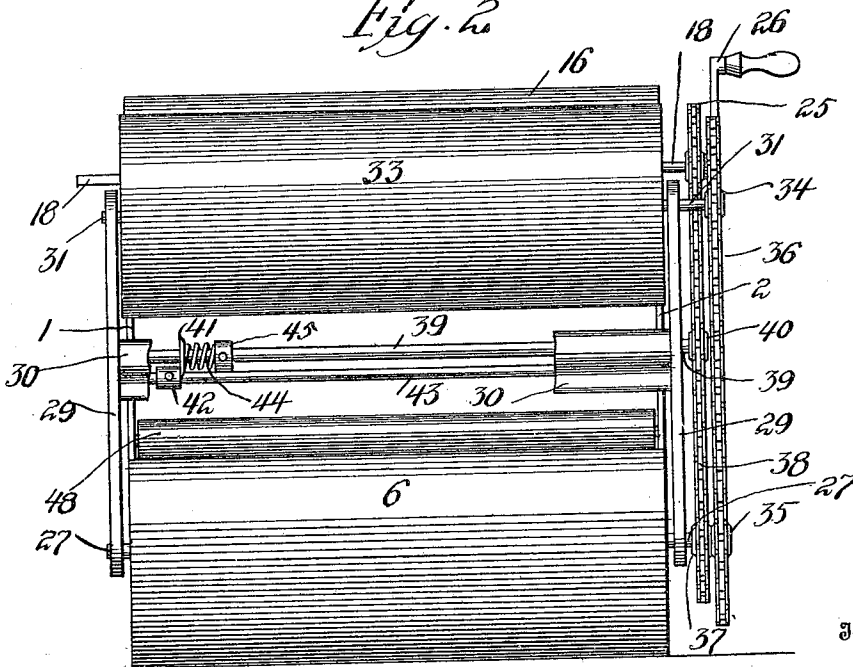


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

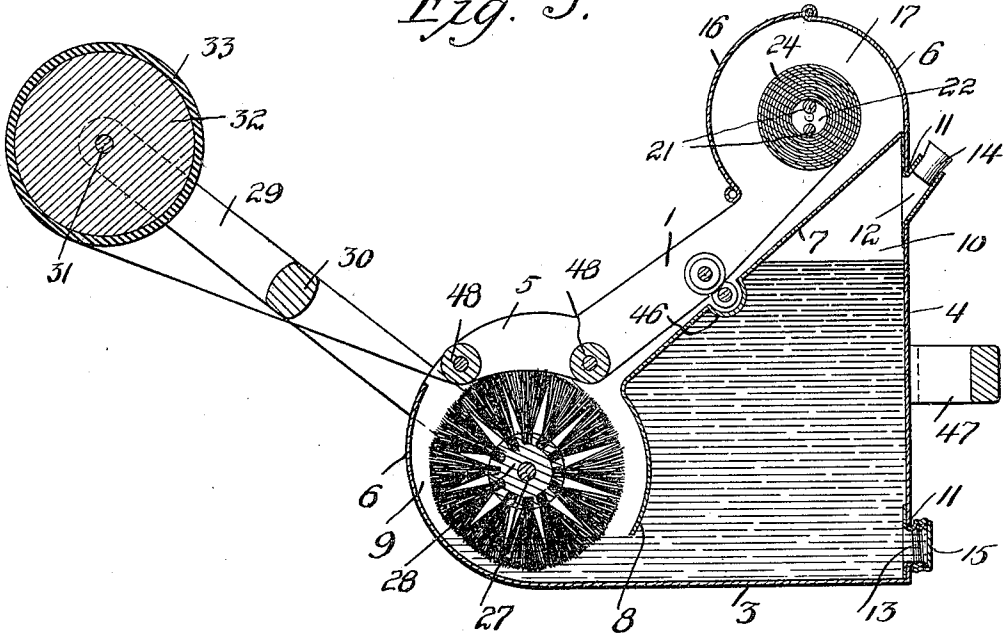
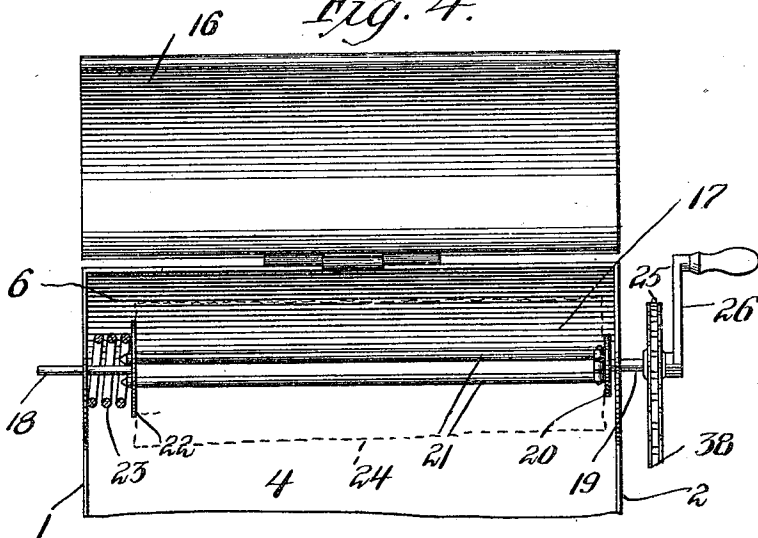


Fig. 4.



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UNITED STATES PATENT OFFICE.

EDWIN McFARLAND, OF BURGETTSTOWN, PENNSYLVANIA.

PAPER-HANGING MACHINE.

953,432.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWIN McFARLAND, a citizen of the United States of America, residing at Burgettstown, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Paper-Hanging Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a paper-hanging machine, and particularly to a device for pasting, trimming and applying to a surface a wall paper.

The primary object of my invention is to provide a portable machine adapted to be actuated by hand to facilitate the papering of a surface.

Another object of this invention is to provide a machine that can be used for papering a ceiling, walls, or similar surfaces.

A still further object of this invention is to provide a papering machine having a novel paste reservoir.

A still further object of this invention is to provide a simple, durable and inexpensive machine that can be safely used without injuring the paper to be applied to a surface.

With the above and other objects in view, which will readily appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be presently described and then specifically pointed out in the appended claims.

Referring to the drawings, Figure 1 is a side elevation of my machine, Fig. 2 is a front elevation of the same partly broken away, Fig. 3 is a longitudinal sectional view of the machine, and Fig. 4 is a front elevation of the same with a lid or cover in an open position.

In the accompanying drawings, 1 and 2 designate the side walls of a triangular casing, said side walls being connected by a base plate 3 and a vertical plate 4, the latter corresponding to the altitude of the right triangular casing. The side walls 1 and 2 are formed with circular enlargements 5, and the plates 3 and 4 are bent, as at 6 to engage a portion of said enlargements. The side walls 1 and the plates 3 and 4 are made of metal and are soldered or suitably connected together to provide a suitable casing.

Within the casing is arranged an angular partition or cover 7, said partition having an inclination corresponding to the hypotenuse edges of the side walls 1. The lower end of said partition is bent, as at 8 to form in conjunction with the base plate 3 and the side walls 1 and 2 a brush compartment 9, while said partition in conjunction with the base plate 3, vertical plate 4 and side walls 1 and 2 provides a paste reservoir or receptacle 10.

The vertical plate 4 is provided with two openings 11 having nipples 12 and 13 extending therethrough, the former being closed by a cork 14 and the latter by a threaded cap 15. When my machine is inverted and the cap 15 removed, the paste receptacle or reservoir 10 can be filled with paste. With the cap 15 replaced and the machine righted, a quantity of the paste will flow under the lower curved portion of the partition 7 and assume a level approximately that shown in Fig. 3 of the drawings. The nipple 12 is provided for cleansing the interior of the receptacle or reservoir 10.

Hinged to the upper edge of the vertical plate 4 is a lid 16 providing a paper-roll compartment 17. In the compartment 17 is journaled a paper-roll spool, said spool comprising longitudinally alining shafts 18 and 19, the former being loosely mounted in the wall 1 and the latter in the wall 2. Mounted upon the inner end of the shaft 19 is a disk 20 having two pivoted rods 21. These rods are adapted to extend through openings provided therefor in a disk 22, carried by the shaft 18. Interposed between the side wall 1 and the disk 22 and encircling the shaft 18 is a coil spring 23, the object of which will presently appear. Since the shaft 18 is loosely mounted in the side wall 1, this shaft can be moved outwardly to release the rods 22. A roll of paper can then be placed upon the rods as best shown in Fig. 3 of the drawings. The rods can then be swung into the compartment 17 and the disk 22 moved to engage the ends of said rods. The roll of paper 24 is then frictionally retained between the disks 20 and 22 by the coil spring 23. The shaft 19 is provided with a sprocket wheel 25 and with a detachable crank 26, the object of which will hereinafter appear.

In the brush compartment 9 of my paper hanging machine is journaled a shaft 27, the

ends of said shaft protruding beyond the side walls 1 and 2 of the machine. Mounted upon the shaft 27 within the compartment 9 is a cylindrical brush 28 supplied
5 with paste from the receptacle or reservoir 10.

Loosely mounted upon the ends of the shaft 27 are two arms 29 connected intermediate their ends by a handle bar 30. Journaled in the outer ends of the arms 29 is a shaft 31, one end of said shaft protruding beyond one of the arms. Mounted upon the shaft 31 between the arms 29 is a roller 32 having a peripheral covering 33 of rubber
10 or a similar resilient material. Upon the protruding end of the shaft 31 is mounted a sprocket wheel 34 and upon one end of the shaft 27 is mounted a sprocket wheel 35. Adapted to travel over said sprocket wheels
20 34 and 35 is an endless sprocket chain 36. Upon the shaft 27 is mounted another sprocket wheel 37, and adapted to travel over this sprocket wheel and the sprocket wheel 25 of the shaft 18 is a sprocket chain 38.

Between the side walls 1 and 2 and approximately midway between the compartments 9 and 17 is operatively supported a cutting and trimming device, said device
30 comprising a revoluble shaft 39 having one end protruding beyond the side wall 2 and provided with a sprocket wheel 40 adapted to be engaged by the sprocket chain 38. Loosely mounted upon the shaft 39 adjacent
35 to the side wall 1 is a beveled cutter wheel 41 which is normally held in engagement with the cutter head 42 adjustably mounted upon a shaft 43, journaled in the side walls 1 and 2. The cutter wheel 41 is held in
40 engagement with the head 42 by a coil spring 44, said spring encircling the shaft 39 between the wheel 41 and a collar 45 adjustably mounted upon said shaft. The partition 7 is provided with a counter-sunk portion
45 46 to clear the shaft 43.

The vertical plate 4 of the machine is provided with a handle or hand bar 47.

Journaled in the compartment 9 above the brush 28 are two guide rollers 48.

50 Operation:—The piece of paper from the roll 24 is passed between the shafts 39 and 43, under the rollers 48, and over the brush 28 and upwardly to be engaged by the roller 32. Since the beveled cutter wheel 41 and the cutter head 42 are adjustably mounted
55 upon the shafts 39 and 43, the cutting and trimming device can be moved to trim any desired width from the edge of the paper as it passes between the shafts 39 and 43. As the paper is drawn over the brush 28, it
60 will be coated with paste, and a roller 32 will cause the same to adhere to a wall, ceiling, or similar surface.

My machine is manipulated by holding
65 the casing in one hand and a hand bar 30

in the other hand, and when the machine is used simply as a paster for wall paper, the paper is fed over the brush 28 and the roller 32 by the crank 26.

While in the drawings forming part of this application there is illustrated a preferred form of construction embodying the invention, it is to be understood that the elements therein may be varied or changed
70 as to the shape, proportion and exact manner of assemblage, without departing from the spirit of the invention.

Having now described my invention what I claim as new, is;—

1. A combined paper pasting and hanging machine comprising a casing embodying a paste reservoir, a paste applying brush arranged in operative relation with respect to said reservoir, means carried by the casing for supplying paper to the paste brush,
80 means suspended from the casing for affixing the paper, means operatively connected with the paste brush for operating the affixing means simultaneously with the operation of the paste brush, and means for simultaneously operating said supply means and said paste brush.

2. A combined paper pasting and hanging machine comprising a casing embodying a paste reservoir, a paste applying brush arranged in operative relation with respect to said reservoir, means carried by the casing for supplying paper to the paste brush,
85 means suspended from the casing for affixing the paper, means operatively connected with the paste brush for operating the affixing means simultaneously with the operation of the paste brush, means for simultaneously operating said supply means and said paste brush, and an adjustable and rotatable paper
90 trimming device arranged in operative relation between the paper supplying device and the paste applying brush.

3. A combined paper pasting and hanging machine comprising a casing having a paste reservoir, a paste applying brush arranged in operative relation with respect to said reservoir, means carried by the casing for feeding paper over the brush, a paper affixing device pivotally supported by and exteriorly
100 of said casing for applying the coated paper to a surface, an operative connection between the brush and said paper affixing device for operating the latter simultaneously with the operation of the brush, and means for operating said feeding means and said brush simultaneously.

4. A combined paper pasting and hanging machine comprising a casing having a paste reservoir, a paste applying brush arranged in operative relation with respect to said reservoir, means carried by the casing for feeding paper over the brush, a paper affixing device pivotally supported by and exteriorly of said casing for applying the coat-
125 130

ed paper to a surface, an operative connection between the brush and said paper affixing device for operating the latter simultaneously with the operation of the brush, 5 means for operating said feeding means and said brush simultaneously, and an adjustable and rotatable paper trimming device arranged in operative relation with respect

to the brush and trimming the paper prior to the application of the paste thereto. 10

In testimony whereof I affix my signature in the presence of two witnesses.

EDWIN McFARLAND.

Witnesses:

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