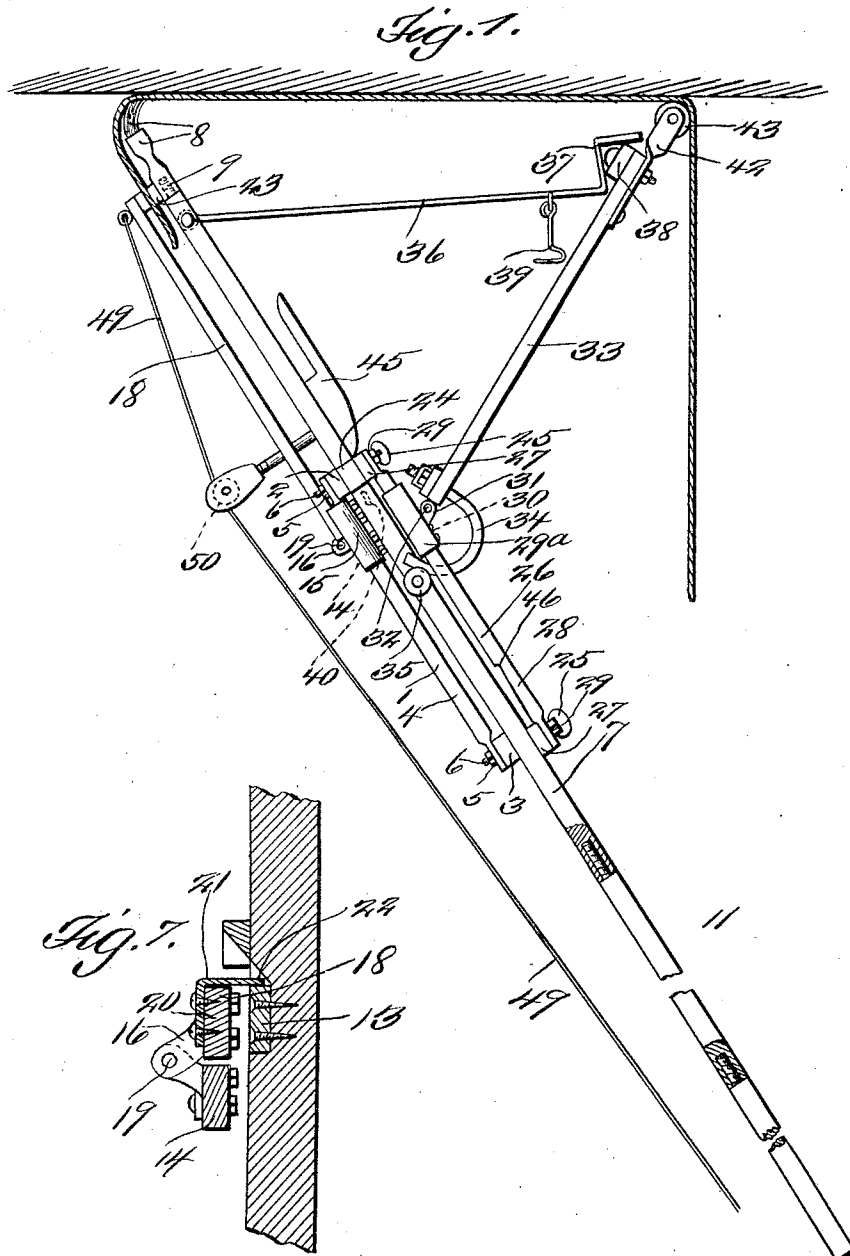


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PAPER HANGING MACHINE.
APPLICATION FILED APR. 11, 1912.

1,044,484.

Patented Nov. 19, 1912.

3 SHEETS-SHEET 1.



Witnesses

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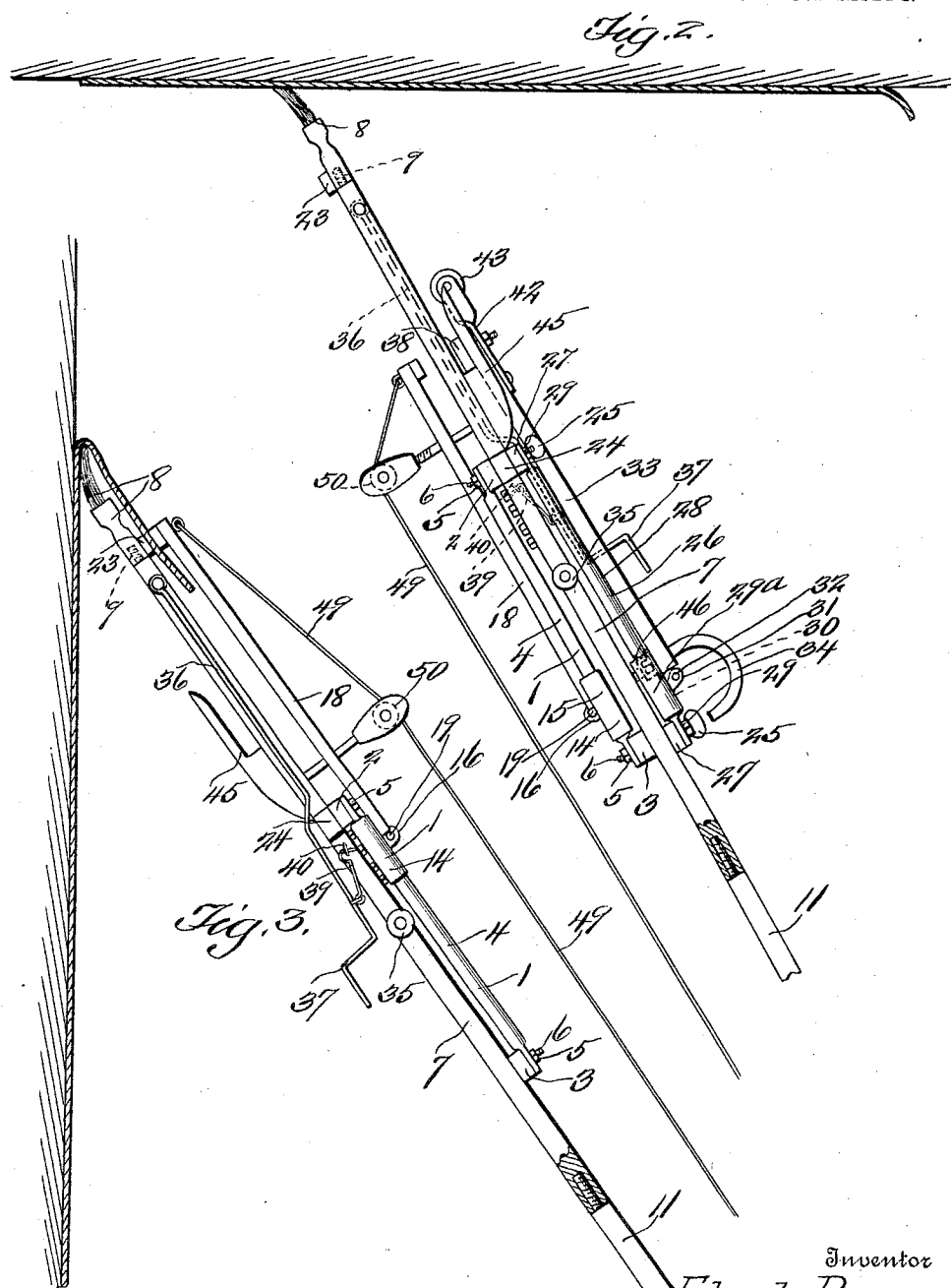
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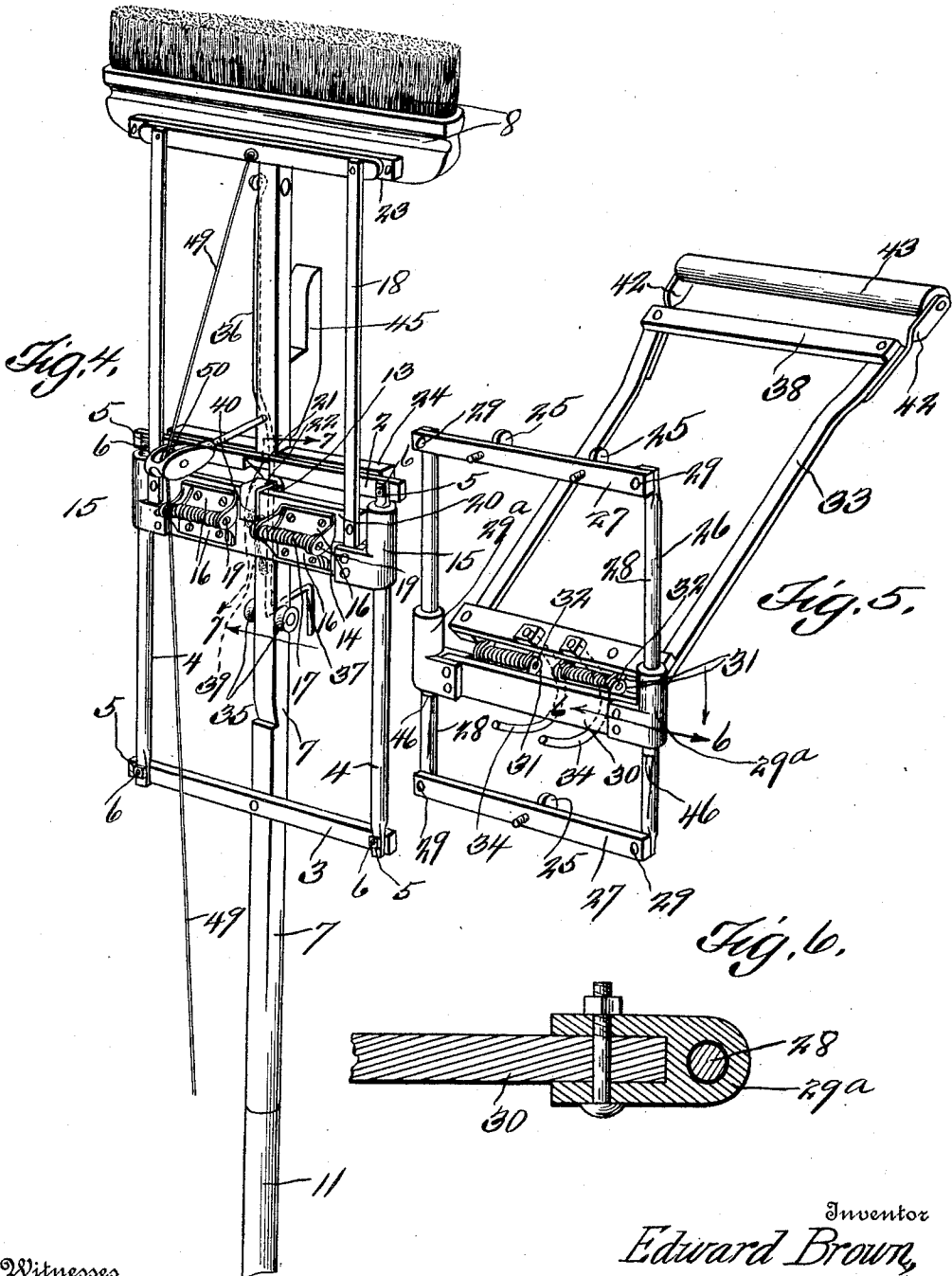


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UNITED STATES PATENT OFFICE.

EDWARD BROWN, OF OWENSBORO, KENTUCKY.

PAPER-HANGING MACHINE.

1,044,484.

Specification of Letters Patent.

Patented Nov. 19, 1912.

Application filed April 11, 1912. Serial No. 690,006.

To all whom it may concern:

Be it known that I, EDWARD BROWN, a citizen of the United States, residing at Owensboro, in the county of Daviess and State of Kentucky, have invented a new and useful Paper-Hanging Machine; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful wall paper hanging machine.

It is the aim of the invention to provide a machine of this nature for facilitating the hanging of wall-paper, and to eliminate the use of ladders and scaffold.

Another object of the invention is the provision of a paperhanging machine, in which novel features of construction exist.

The features of construction are herein-after set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view showing the first step in applying the paper to a ceiling. Fig. 2 is a view showing the second step in applying the paper to a ceiling. Fig. 3 is a view showing the manner in which the paper is hung on a side wall. Fig. 4 is a view in perspective of the machine with a portion removed. Fig. 5 is a view in perspective of the part not shown in Fig. 4. Fig. 6 is a sectional view on line 6—6 of Fig. 5. Fig. 7 is a sectional view on line 7—7 of Fig. 4.

Referring to the drawings 1 designates the main frame, which comprises the transverse bars 2 and 3, connected by the rods 4. The ends of the rods 4 are secured to the bars 2 and 3 by the nuts and bolts 5 and 6. The frame 1 has secured to it a central rod 7, to the upper end of which a brush 8 is transversely arranged, the same being secured to the rod 7 by means of a threaded pin 9, while the other end of the rod 7 is connected with the rod 11, which may in turn be connected telescopically to another section of rod. Secured in a recess 12 of the rod 7 is a plate 13, which constitutes a keeper plate, as will be hereinafter observed.

Guided on the rods 4 is a cross head 14, by means of the guide brackets 15. The cross head is designed to be moved upwardly and downwardly. Hinged resiliently to the cross head, by means of the hinged plates 16

and the coil springs 17 is a clamping frame 18. The springs are coiled about pins or rods 19, which pivot the hinge plates together. The bar 20 of the clamping frame has fixed to it an angle plate 21, the nose of which designated by the numeral 22 engages the keeper plate, in order to hold the cross head and the clamping frame in their upper positions, with respect to the frame 1, in order to hold the wall paper between the free end of the clamping frame and a plate 23, which is secured to the wood portion of the brush.

The rod 7 is provided with laterally extending portions 24. Secured to the portions 24 and the rod 7 by means of the thumb screws 25 is a supplemental frame 26. The frame 26 comprises the transverse rods 27, to which the guide rods 28 are connected, as at 29. Slidably mounted on the guide rods 28 are the bracket plates 29^a, which are secured to the ends of the cross head 30. Pivotaly connected to the cross head 30, by means of the hinge plates 31 and pins 32, which connect the hinge plates, is a frame 33. Coil springs are mounted upon the pins 32 in such wise as to hold the frame 33 against the brush or the rod 7. Secured to the pivoted end of the frame 33 are cam rods 34, which are designed to engage the groove rollers or pulleys 35, when the frame 33 is thrown outwardly from the brush. Pivoted to the rod 7 adjacent the brush is a rod 36, the free portion of which terminates in an angled end 37, adapted to engage the transverse bar 38 of the frame 33, so as to hold the frame 33 swung outwardly from the brush. The rollers and the cam rods constitute means for preventing the cross head 30 and the brackets 29^a from moving downwardly on the guide rods, when the frame 33 is swung from the brush. The rod 36 is provided with a hook 39, designed to engage the eye 40 of the rod 7, in order to hold the rod 36, when the same is not utilized. The springs of the pins 32 act to hold the transverse bar 38 in engagement with the rod 36, as shown in Fig. 1. Secured to the outer ends of the side bars of the frame 33 are extension plates 42, in the outer ends of which a roller 43 is journaled.

In hanging wall paper upon the ceiling; one end of the paper is secured between the free end of the clamping frame and the plate 23, with the portion of the strip of

paper passing over the roller of the frame 33, which frame 33 is held outwardly from the brush by the rod 36. The paper is then brought in contact with the ceiling, so as to
 5 cause the same to adhere thereto. The operator then presses the handle of the machine in the direction of the ceiling, so that the frame 33 may be released from engagement with the angled end of the rod 36, thereby
 10 allowing the rod 36 to fall adjacent to the machine. The operator then moves the machine so that the frame 33 will be allowed to close, and at the same time slide downwardly on the guide rods of the supplemental frame. The paper is then released
 15 by the clamping frame, after which the operator smooths the paper on the ceiling by the brush. When the frame 33 closes, the bar 38 engages behind the keeper 45 on the rod 7. When the cross head to which
 20 the frame 33 is connected lowers, the bracket plates 29^a engage under the shoulders 46 of the rods of the supplemental frame.

When hanging paper upon the side wall,
 25 the supplemental frame and the frame 33 are removed from the machine, by removing the thumb screws. In hanging the paper on the side wall, the same is placed over the brush, with its free end clamped between the
 30 free end of the clamping frame and the plate 23. The operator then raises the machine and causes the paper to adhere to the side wall. The clamping frame is then operated by the pull cord 49, to release the
 35 paper, after which the same is smoothly hung on the wall by the brush. The pull cord 49 passes over the pulley 50, which stands off from the rod 7 sufficiently, so as to hold a portion of the cord at an angle to
 40 the machine, whereby when a pulling action is imparted on the cord the free end of the clamping frame will be thrown slightly open. When the free end of the clamping
 45 frame is thrown outwardly, the nose of the angled plate will disengage from the keeper plate 13, thereby allowing the cross head 14 to slide downwardly on the guide rods of the frame 1.

The invention having been set forth, what
 50 is claimed as new and useful is:—

1. In a paper hanging machine, a frame, a brush secured at its upper end, the frame having guide rods, a cross head slidable on the rods, and a clamping frame yieldably
 55 hinged to the cross head and adapted for clamping the paper to the brush.

2. In a paper hanging machine, a frame, a brush secured at its upper end, the frame having guide rods, a cross head slidable on
 60 the rods, and a clamping frame yieldably hinged to the cross head and adapted for clamping the paper to the brush, and means

for holding the clamping frame in an upper position on the guide rods.

3. In a paper hanging machine, a frame, 65 a brush secured at its upper end, the frame having guide rods, a cross head slidable on the rods, and a clamping frame yieldably hinged to the cross head and adapted for clamping the paper to the brush, and means 70 for holding the clamping frame in an upper position on the guide rods, and means for releasing the clamping frame.

4. In a paper hanging machine, a frame, a brush secured at its upper end, the frame 75 having guide rods, a cross head slidable on the rods, and a clamping frame yieldably hinged to the cross head and adapted for clamping the paper to the brush, the frame having a keeper plate, the cross head having 80 an angled plate, the nose of which engages the keeper plate for holding the clamping frame upwardly on the guide rods.

5. In a paper hanging machine, a frame, a brush secured at its upper end, the frame 85 having guide rods, a cross head slidable on the rods, and a clamping frame yieldably hinged to the cross head and adapted for clamping the paper to the brush, the frame having a keeper plate, the cross head hav- 90 ing an angled plate, the nose of which engages the keeper plate for holding the clamping frame upwardly on the guide rods, and means for releasing the clamping frame. 95

6. In a paper hanging machine, a frame, a brush secured at its upper end, the frame having guide rods, a cross head slidable on the rods, and a clamping frame yieldably hinged to the cross head and adapted for 100 clamping the paper to the brush, the frame having a keeper plate, the cross head having an angled plate, the nose of which engages the keeper plate for holding the clamping frame upwardly on the guide rods, and 105 means for releasing the clamping frame, a detachable supplemental frame secured to the first frame and having guide rods, a cross head slidably mounted on the last named guide rods, a frame yieldably pivoted 110 to the second cross head and having a roller at its outer free end with which the paper engages, means for holding the second pivoted frame outwardly from the brush, and means for bracing and supporting the last pivoted 115 frame when held outwardly.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD BROWN.

Witnesses:

L. E. VANOUER,
 F. H. MILLER.