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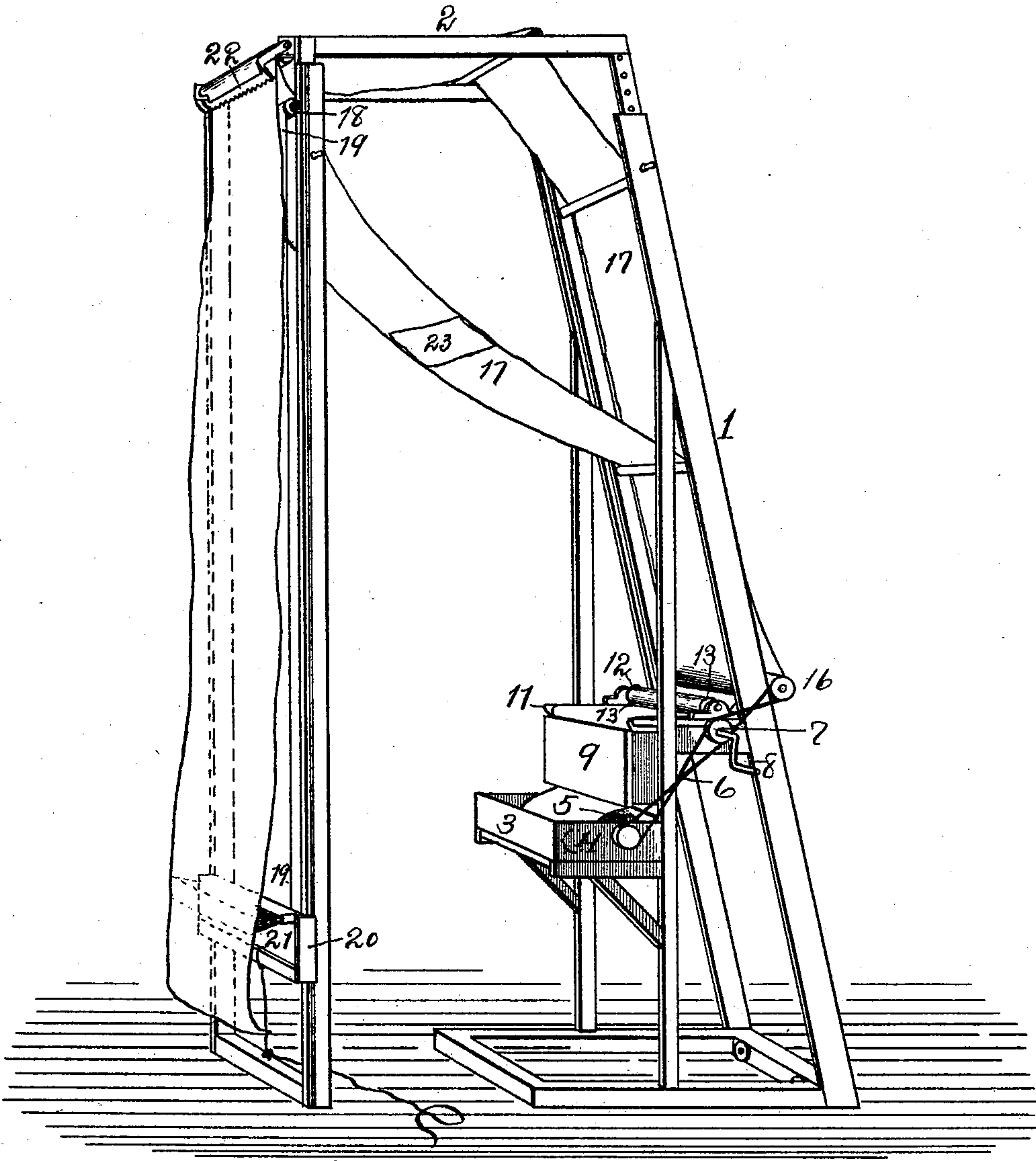
2 Sheets—Sheet 1.

A. H. LOHLKER.  
PAPER HANGING MACHINE.

No. 453,174.

Patented May 26, 1891.

*Fig. 1.*



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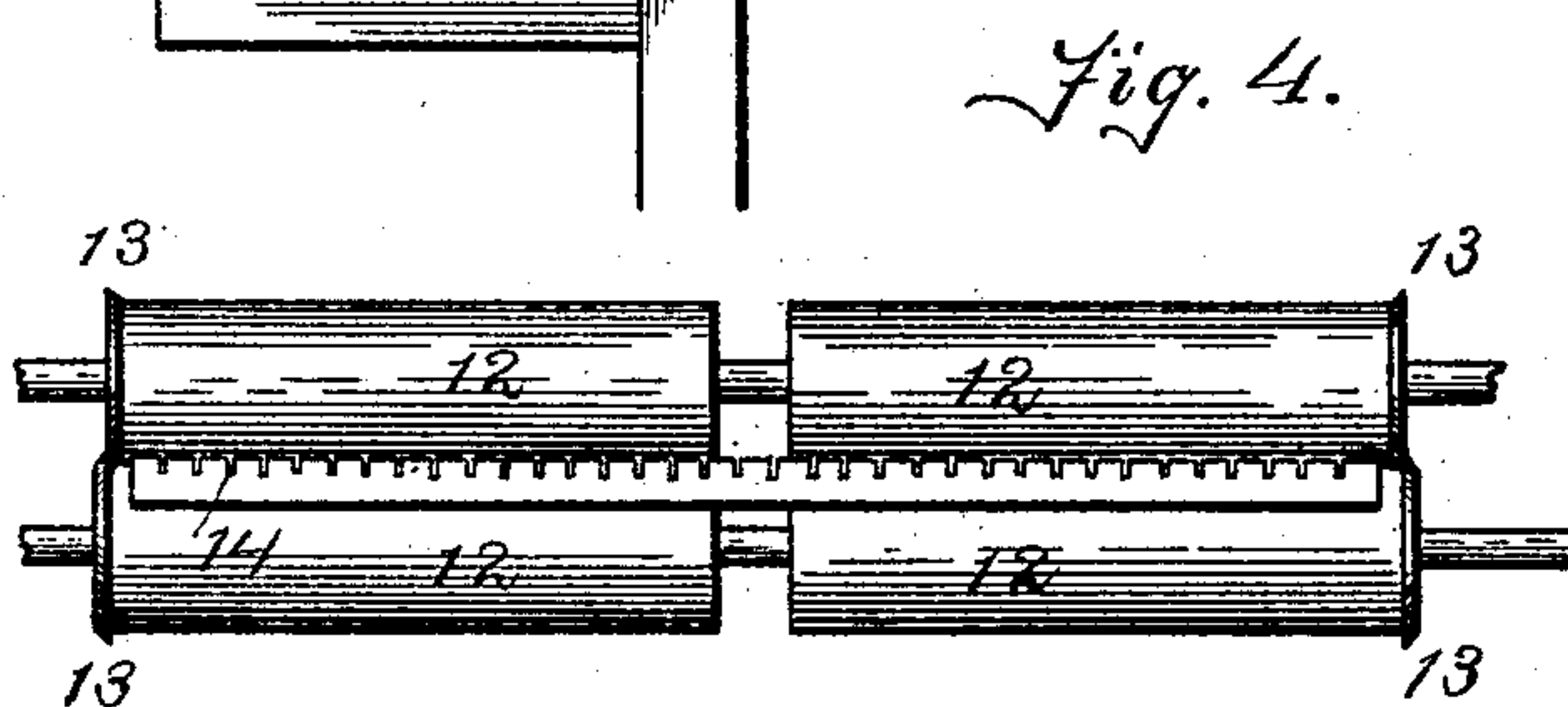
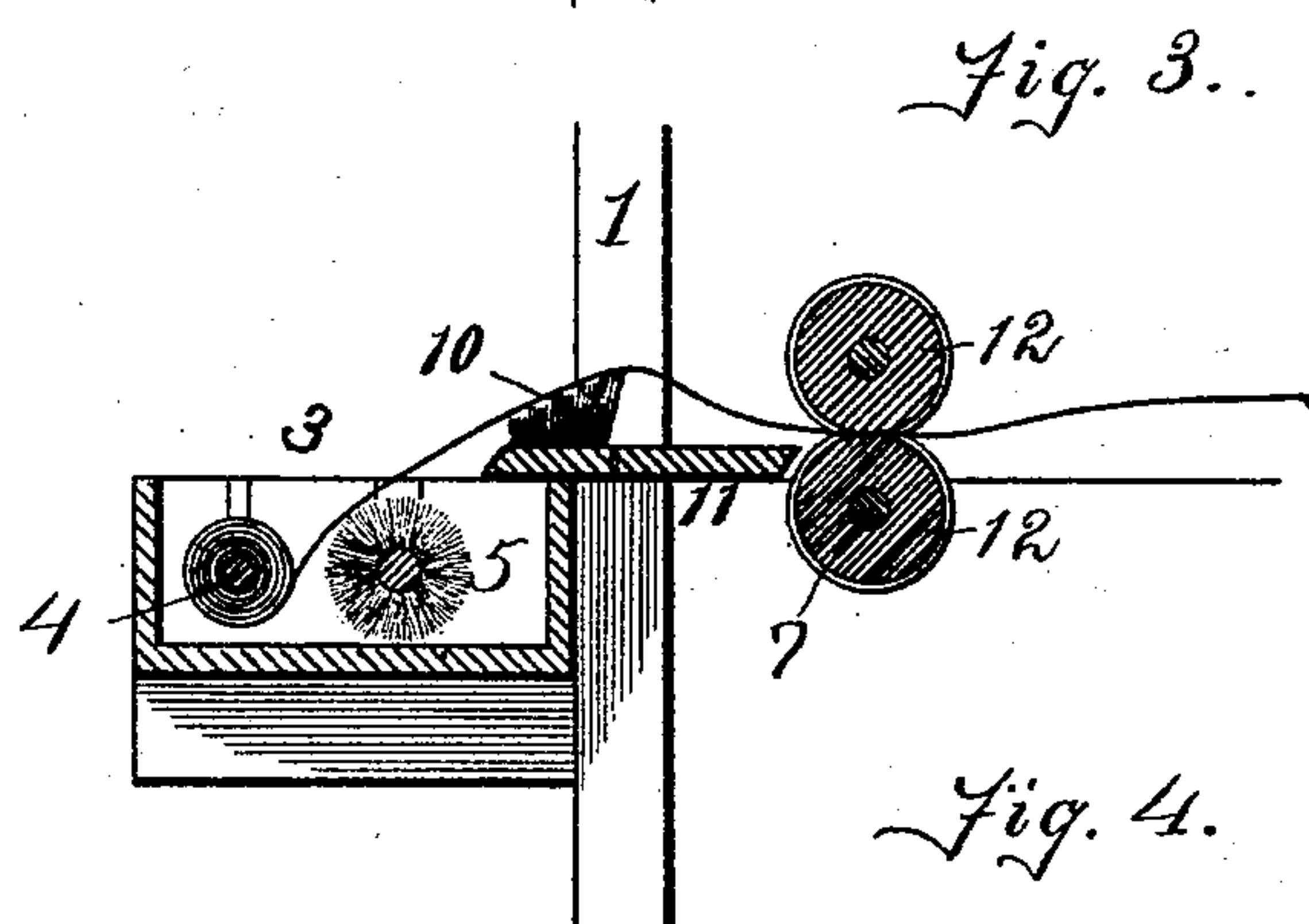
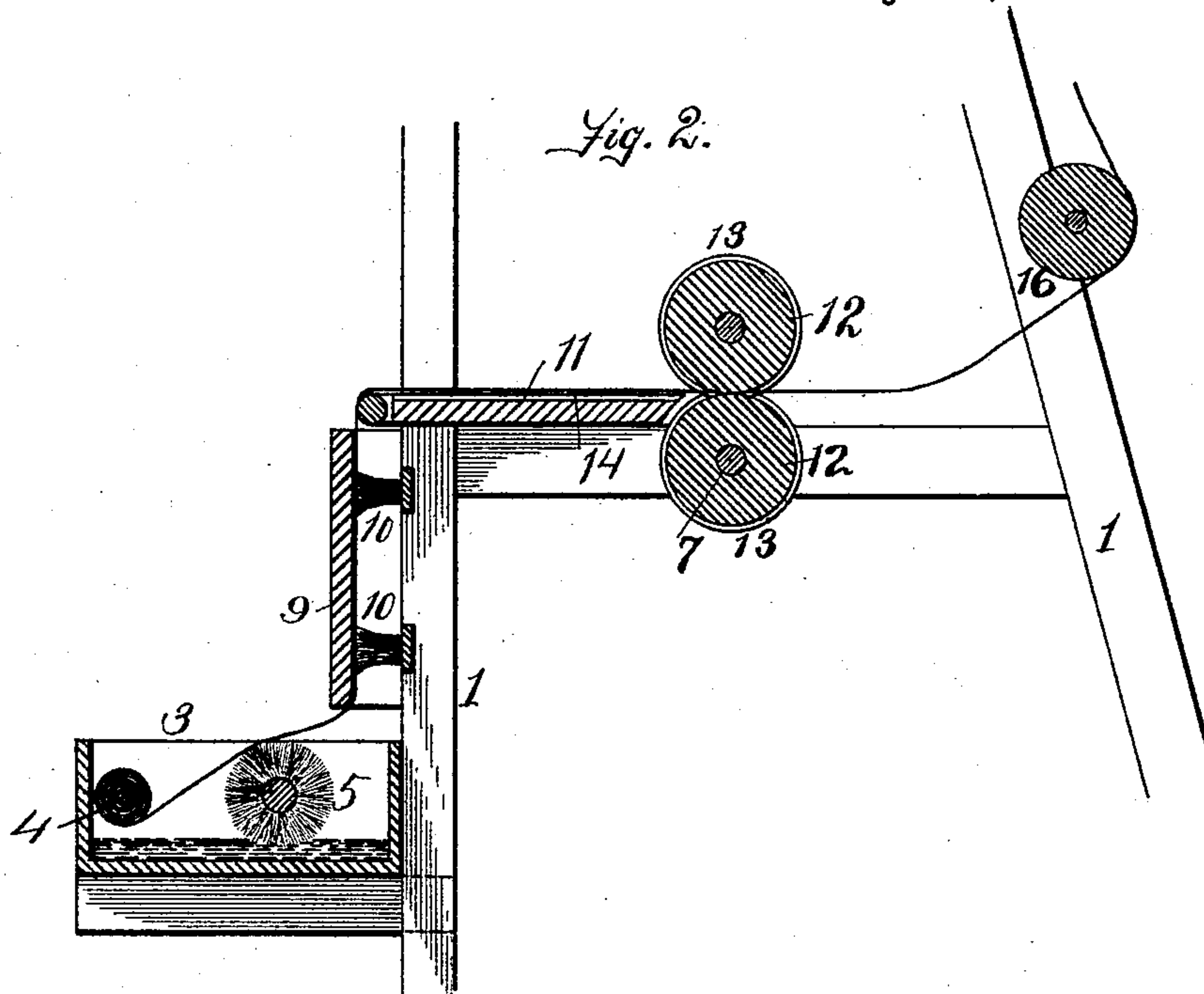
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# UNITED STATES PATENT OFFICE.

ADAM H. LOHLKER, OF ST. PAUL, MINNESOTA.

## PAPER-HANGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 453,174, dated May 26, 1891.

Application filed October 28, 1890. Serial No. 369,638. (No model.)

### *To all whom it may concern:*

Be it known that I, ADAM H. LOHLKER, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Paper-Hanging Machines; and I do 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, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved form of paper-hanging machine; and the invention consists in the construction and arrangement of the various parts whereby the entire work necessary to be performed in hanging wall-paper and preparing the same for hanging—such as trimming the edges, cutting to the proper width in case of the necessity of using a narrow strip, pasting, placing upon the wall, smoothing after being placed in position, and cutting off at the proper length—may be accomplished by a single piece of apparatus and without the necessity of employing skilled workmen.

The object of the invention is to furnish a device or combination of devices which shall perform most of the operations necessary by simply turning a crank and in which the portions of the work not so performed are accomplished by movements requiring little skill and in much less time than in the ordinary manner. The invention will be more fully described by reference to the accompanying drawings, in which—

Figure 1 represents a view in perspective of my improved paper-hanging machine; Fig. 2, a section of the principal operative parts, and Fig. 3 a similar view of a modified form of the same. Fig. 4 is a front view of rollers and table.

The standard consists of an upright framework 1, carrying an extensible part 2, which may be raised or lowered upon the part 1 in any desired manner to adapt the apparatus for use upon walls of different height. The two parts of the frame may be so arranged as to slide with reference to each other, as by

means of ways formed upon the part 1 fitting in corresponding grooves in the other section 2.

At any convenient height upon the standard 1 is located the paste-box 3, having bearings, formed in the ends thereof, supporting a roller 4, upon which the paper is wound. At the other side of the box and parallel to the paper-roller is similarly mounted a paste-brush 5, operated by means of a belt 6 from the drive-shaft 7, to which an operating-crank 8 is attached. The paper is passed from the roll over the paste-brush to the paste-distributor, which consists of a vertical table 9, behind which the paper is passed, and so located that the lower edge of the same presses the paper closely against the brush. Behind this vertical table are located one or more brushes 10, between which and the table the paper passes, its pasted side being toward the brush or brushes which press the paper, spreading the paste evenly over the same.

At the top of the distributor is located the cutting-table 11, over which the paper passes between two rollers 12 12, one being the drive-roller, by the turning of which the whole apparatus is operated. These rollers are provided at each end with circular cutters 13, fitting together in shear fashion and adjustable upon the shafts, the rollers being a snug fit, and consequently movable longitudinally thereupon. These cutters are placed at a distance apart suited to the width of the paper, and when properly adjusted will trim both edges of the paper as the same passes between them, the adjustability above referred to being for the purpose of changing to suit different widths of paper. For the purpose, also, of enabling narrow strips to be cut as is often necessary, the table 11 is provided with a series of narrow slots 14, running in the direction of the length of the paper, into any one of which the point of a knife may be inserted to cut the same as it is drawn along by the turning of the rollers. These slots may be arranged at a distance of about half an inch apart across the table.

To the drive-shaft is also belted or otherwise operatively connected a roller or shaft 16, which moves the endless carrier-belt 17, extending to the top and front of the upper



frame, being mounted and supported thereon at convenient points by means of suitable rollers. This belt is preferably of canvas or similar material, and of a width about equal to or a little greater than that of the paper. The end of the paper is attached to the carrier-belt by means of the device hereinafter described or otherwise, and carried along to the top and front of the frame, from which point the carrier returns and the paper falls of its own weight or may be assisted by the release of the means by which it was attached thereto. The crank is turned until the end of the paper has fallen to the proper point, when the operator presses the end against the wall at the upper edge of the base-board, at the same time matching the figure, if any, with the paper previously hung. When attached at this point the, smoothing device is operated. This is as follows: At the top and front edge of the upper section of the frame is mounted a spring-roller 18, similar in all respects to an ordinary window-shade spring-roller. To this roller is attached, by means of a wide band 19 of a length sufficient to reach to the floor or base of the frame, a sliding carriage mounted upon ways or tracks upon the frame, so as to slide vertically thereon, and carrying a brush 21 of a width equal to or a little greater than that of the paper. The carriage carrying the brush is drawn down to the base of the frame and fastened until ready for use—that is, until the paper has been fitted and fastened to the wall at the bottom. It is then released, and the spring in the roller 18 causes it to fly rapidly to the top, pressing the paper closely and smoothly to the wall for the whole distance. The paper is cut at the top of the wall automatically by means of a horizontal knife 22, pivotally hung across the front of the upper frame and outside of the paper. The edge of this knife turns inwardly toward the paper and has a saw-tooth or serrated edge against which the paper is pressed by the face of the brush 21 as it reaches the top, thereby cutting it at the proper point and allowing the brush to press it closely to the wall. The operation is now completed, and the apparatus is made ready for hanging the next width by being moved along to the next space by means of suitable rollers or casters upon which it is mounted.

By the use of this apparatus both edges of the paper are trimmed, thereby insuring a uniform width and avoiding the necessity of overlapping one width upon the next. The paper is evenly pasted and evenly and quickly laid upon the wall, and the device can be operated by a boy as well as by a skilled workman. The end of the paper, when beginning, upon a new roll, may be attached to the carrier-belt, so as to be moved along therewith, by means of a pocket 23 formed therein, into which the end of the paper is inserted and held therein by means of a rod or other weight.

When the belt reaches the point at which it begins to descend, the rod drops, releasing the paper and allowing it to hang by its own weight.

In Fig. 3 is shown a modification of the apparatus in which the paste-box is located nearly level with the cutting-rollers, and the distributing-brush 10 is located vertically on the rear of the box in such a position that the paper is drawn over the same. The operation is in all respects similar to that above described.

I claim as my invention—

1. In a machine of the class described, the combination of the paper-roll holder, the paste-box having a revolving brush therein in position to bear against the back of the paper, the rollers provided with circular shear-cutters at each end, between which the paper is adapted to pass, means for operating simultaneously the said rollers and paste-brush, and a slotted table over which said paper passes to enter between said rollers, substantially as and for the purpose herein specified.

2. In a machine of the class described, the combination of the paper-roll holder, the paste-box having a revolving brush mounted therein in position to bear against the back of said paper as it passes from the roll, rollers provided with circular shear-cutters at each end, between which the paper is passed, means for simultaneously operating said rollers and paste-brush, and a paste-distributor consisting of a surface or table having a brush or brushes resting thereupon, between which surface and brush or brushes the paper is adapted to pass after contact with said paste-brush, substantially as and for the purpose specified.

3. In a machine for hanging paper, the roll-holder and rotary paste-brush, means for holding said paper in contact with said brush, rollers having circular shear-cutters at each end, between which said paper passes, an endless carrier-belt adapted to support and carry the paper after passing said rollers, means for rotating said rollers, paste-brush, and carrier-belt simultaneously, and a vertically-adjustable frame upon which said carrier is mounted, substantially as specified.

4. In a machine for hanging paper, the roll-holder, pasting and trimming devices, substantially as described, an endless carrier-belt for receiving the paper after having passed said trimming and pasting devices, means for operating said devices and said carrier, and a vertically-adjustable support upon which the outer extremity of said carrier-belt is mounted, substantially as specified.

5. In a machine for hanging paper, the roll-holder, pasting and trimming devices, substantially as described, an endless carrier-belt for receiving the paper after passing said devices, means for operating said devices and carrier, a vertical support upon which the outer end of said carrier-belt is mounted, a carriage



adapted to slide upon said support, a horizontal brush mounted upon said carriage, and a spring-roller connected with said carriage to draw the same to the top of said support, substantially as specified.

5 6. In a machine for hanging paper, the roll-holder, pasting and trimming devices, substantially as described, an endless belt for receiving the paper after passing said devices,  
10 means for operating said devices and carrier-belt, a vertical support, upon the outer end of which said carrier is borne, a carriage adapted to slide vertically upon said support,

a horizontal brush carried by said carriage, a spring-roller mounted at the top of said support and connected with said carriage to raise the same, and a horizontal knife or cutter at the top of said support in position to be struck by said brush, substantially as and for the purpose herein specified.

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

ADAM H. LOHLKER.

Witnesses:

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F. W. LANE.