

No. 715,402.

Patented Dec. 9, 1902.

A. C. LUKE.  
PAPER TRIMMING AND PASTING MACHINE.

(Application filed Apr. 18, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

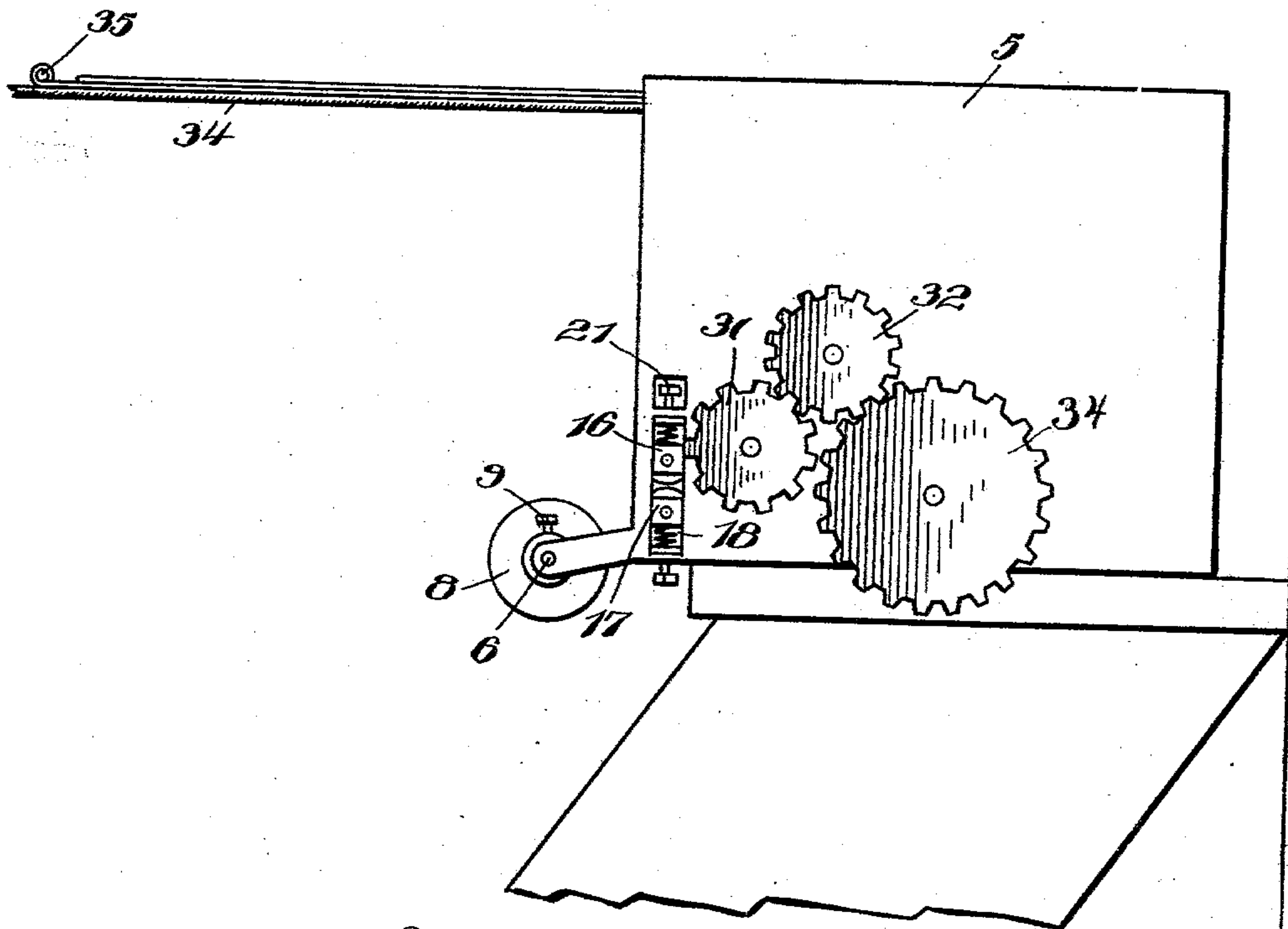
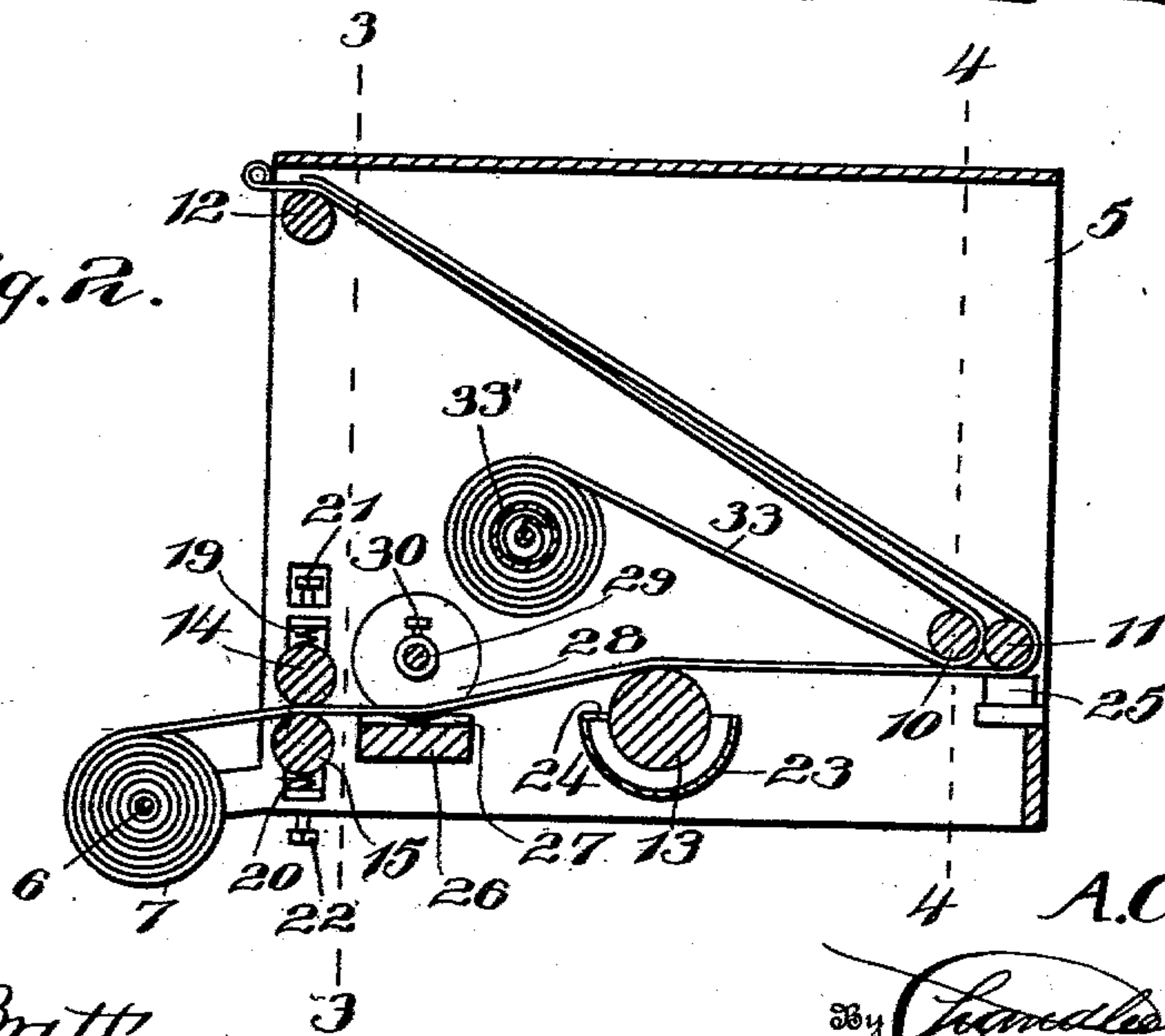


Fig. 2.



Witnesses

J. P. Britt

Harry Ellisland

Inventor

A. C. Luke,

By *James H. Chandler*

Attorneys

No. 715,402.

Patented Dec. 9, 1902.

A. C. LUKE.

PAPER TRIMMING AND PASTING MACHINE.

(Application filed Apr. 18, 1902.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 3.

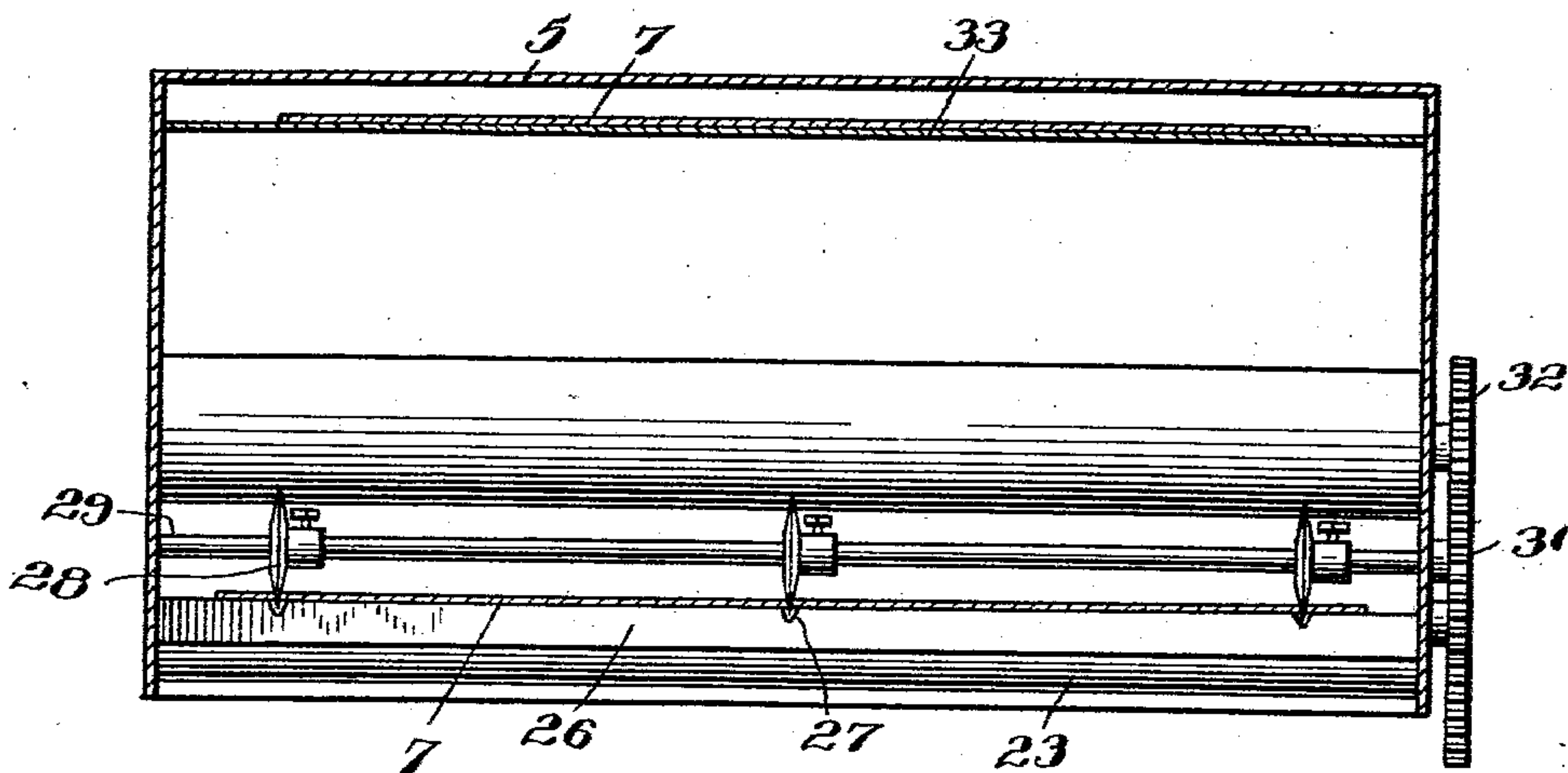
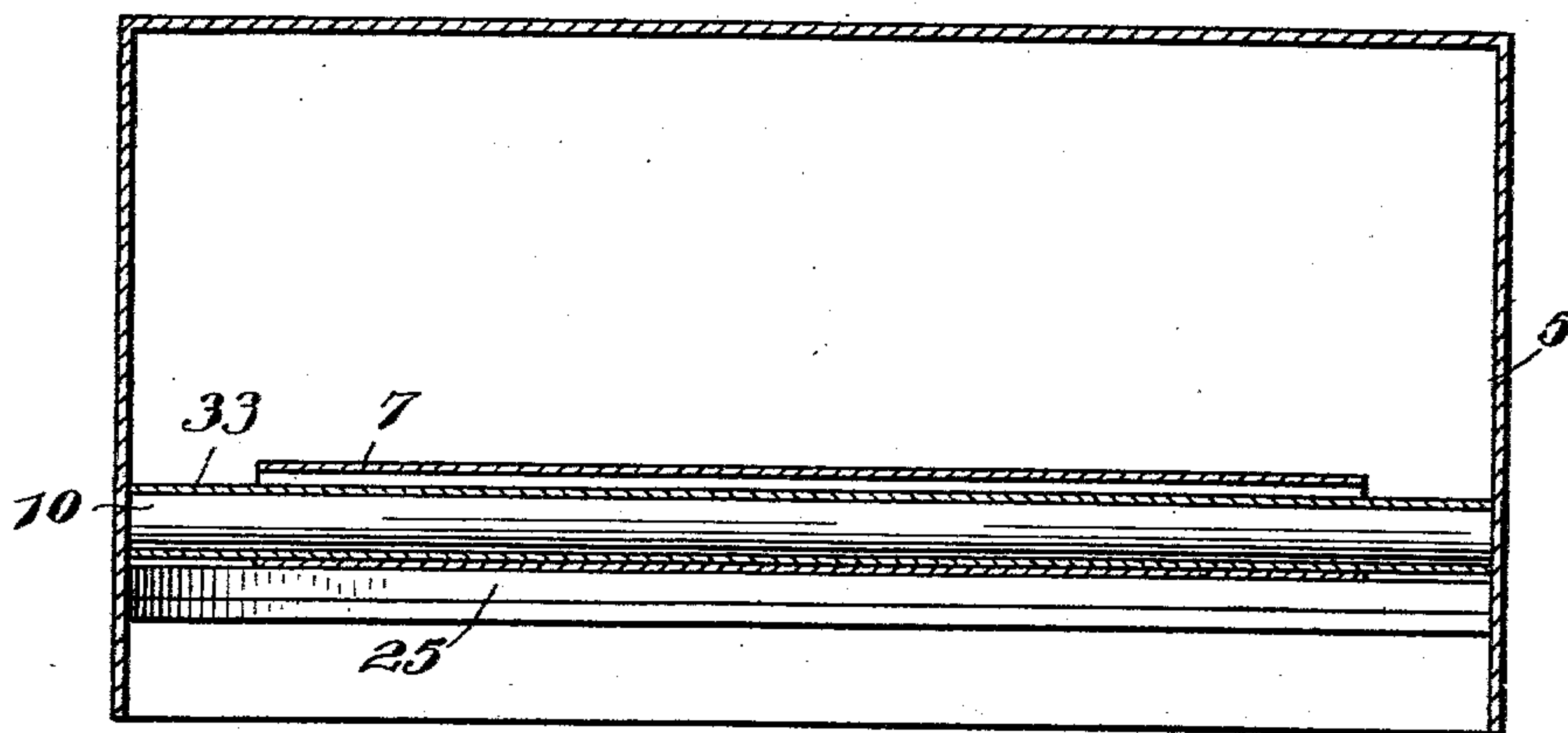


Fig. 4.



Witnesses

J. P. Britt  
Harry C. Chandler

Inventor

A. C. Luke,

By *Charles Chandler*

Attorneys



# UNITED STATES PATENT OFFICE.

ALEXANDER C. LUKE, OF PINER, KENTUCKY.

## PAPER TRIMMING AND PASTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 715,402, dated December 9, 1902.

Application filed April 18, 1902. Serial No. 103,572. (No model.)

*To all whom it may concern:*

Be it known that I, ALEXANDER C. LUKE, a citizen of the United States, residing at Piner, in the county of Kenton, State of Kentucky, have invented certain new and useful Improvements in Paper Trimming and Pasting Machines; 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 machines for trimming and pasting wall-paper; and it has for its object to provide a machine in which a roll of paper may be placed and then drawn therefrom, the paper being first trimmed and then supplied with a coating of paste on one face, so that when finally drawn from the machine it will be ready to be applied to a wall or a ceiling.

A further object of the invention is to provide a machine which may be adjusted to hold different widths of paper and in which the different widths of paper may be trimmed or split, other objects and advantages of the invention being understood from the following description.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation showing the machine attached to a ladder and the supporting-ropes by means of which the paper is supported when pasted ready for application to the wall or ceiling. Fig. 2 is a vertical section taken transversely through the machine. Fig. 3 is a section on line 3 3 of Fig. 2. Fig. 4 is a section on line 4 4 of Fig. 2.

Referring now to the drawings, the present machine comprises a frame 5, in which is mounted a shaft 6, adapted to receive a roll of paper 7, which is to be trimmed and pasted, this shaft 7 having a collar 8, mounted slidably thereon and provided with a set-screw 9 for holding it in its different positions on the shaft, so that it may hold the roll against longitudinal movement and maintain it in proper position for trimming and pasting, as herein-after described. At the opposite side of the frame 5 from the shaft 6 is a guide-roller 10, adjacent to which is a second guide-roller 11,

and at the same side of the frame with the shaft 6 and at the upper portion of said frame is a third guide-roller 12.

Mounted in bearings in sides of the frame 5 is the shaft of a drum 13, this drum or roller being the pasting device from which the paste is directly applied to the paper. The roll of paper 7 after being placed on the shaft 6 is taken through the frame and then back and behind roller 11 and over the roller 12, the paper in its passage from the roll to the roller 10 engaging the roller 13, and to prevent too free unrolling of the paper tension-rollers 14 and 15 are provided above and below the paper and are journaled in vertically-adjustable bearing-blocks 16 and 17, mounted in guideways 18 at the sides of the frame. The rollers are held in close relation by the helical springs 19 and 20, disposed against the upper and lower faces, respectively, of the bearing-blocks, and the tensions of these bearing-blocks are adjusted by manipulation of the thumb-screws 21 and 22. By this means the rollers may be caused to press with varying degrees of weight against the paper to determine the freedom with which the paper will be unrolled.

The pasting-roller 13 dips into a tank 23, which contains the paste, and in order that an excessive amount of paste may not pass up with the roller and be applied to the paper in such manner as to project above the edges thereof a scraper 24 is fixed to the side of the tank and engages the face of the roller. To distribute the paste evenly over the under side of the paper, a brush 25 is arranged directly below the roller 11 and in position to press against the under side of the paper, this brush being of rubber or any other suitable material for the purpose.

To trim the paper and split it or trim it or split it, a table 26 is provided between the tension-rollers and the pasting-roller, and this table has grooves 27 therein, into which take disk-shaped knives 28, carried by the shaft 29, which is mounted in the frame, the knives having hubs provided with set-screws 30 for holding the knives upon the shaft and for permitting of adjustment of the knives to correspond to different widths of paper, it being understood that the middle knife will slit the paper to cut off the border when it is



desired. The middle knife may be removed when the paper is not to be split. To rotate the shaft 29 with the knives thereon, said shaft is provided with a gear-wheel or pinion 5 31, with which engages a gear 32, carried by a spring-drum 33', mounted in the frame and on which spring-drum is rolled a web 33, of canvas or other suitable fabric.

When the paper is passed in the direction 10 above described, the web 33 is passed with it, but around roller 10, and when the paper is drawn out of the machine the web is drawn to rotate the spring-drum and therewith the shaft 29 with the knives thereon. It will be 15 understood, of course, that the paper alone would tear if sufficient power were employed to draw it so as to rotate the cutters, and, furthermore, a different specific mechanism would be required to rotate the cutters from 20 the paper. After a sufficient quantity of paper has been drawn from the machine the canvas is released and permitted to roll back upon the spring-roller, ready to be drawn out again with the next section of the paper.

25 In practice the apparatus is secured to a ladder at one side of the room, and ropes 34 are attached to the upper portion of the frame and to a ladder or other suitable support at the opposite side of the room when the ceiling is being papered. The web 33 is attached 30 to a cross-bar 35, which rests upon the rope, so that when the web is drawn out it will be supported and will in turn support the paper. When a wall is being papered, the ropes may 35 be attached to the bottom of the same ladder that supports the machine.

In practice the knives may be arranged at the opposite sides of the pasting-roller, and other modifications may be made. Also any 40 suitable materials and proportions may be used for the several parts without departing from the spirit of the invention.

To rotate the paste-roller, it is provided with a gear-wheel 34', which engages the gear- 45 wheel or pinion 32.

What is claimed is—

1. A paper trimming and pasting machine

comprising a frame, a pasting-roller, a shaft to receive a paper-roll at one side of the pasting-roller, a guide-roller at the opposite side 50 of the pasting-roller, a table between the shaft and pasting-roller, rotatable cutting-knives in operative relation to the table, a winding-drum operably connected with the knives, a web attached to and wound upon the drum 55 and adapted for passage with the paper around the guide-roller and a paste-distributing device disposed for contact by the pasted paper.

2. A paper trimming and pasting machine 60 comprising a frame, a pasting-roller, a shaft to receive a paper-roll at one side of the pasting-roller, a guide-roller at the opposite side of the pasting-roller, a table between the shaft and pasting-roller, rotatable cutting-knives 65 in operative relation to the table, a winding-drum operably connected with the knives, a web attached to and wound upon the drum and adapted for passage with the paper around the guide-roller and tension-rollers 70 disposed between the paper-receiving shaft and the table and adapted to receive the paper therebetween.

3. A paper trimming and pasting machine 75 comprising a frame, a pasting-roller, a shaft to receive a paper-roll at one side of the pasting-roller, a guide-roller at the opposite side of the pasting-roller, a table between the shaft and pasting-roller, rotatable cutting-knives 80 in operative relation to the table, a winding-drum operably connected with the knives, a web attached to and wound upon the drum and adapted for passage with the paper around the guide-roller, tension-rollers disposed between the paper-receiving shaft and 85 the table and adapted to receive the paper therebetween, and a paste-distributing device disposed for contact by the pasted paper.

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

ALEXANDER C. LUKE.

Witnesses:

L. E. LUKE,  
SARAH E. WILLIAMS.