R. R. PALMER.

PAPER PAD PRESS.

APPLICATION FILED DEC. 3, 1919.

1,354,061.

Patented Sept. 28, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

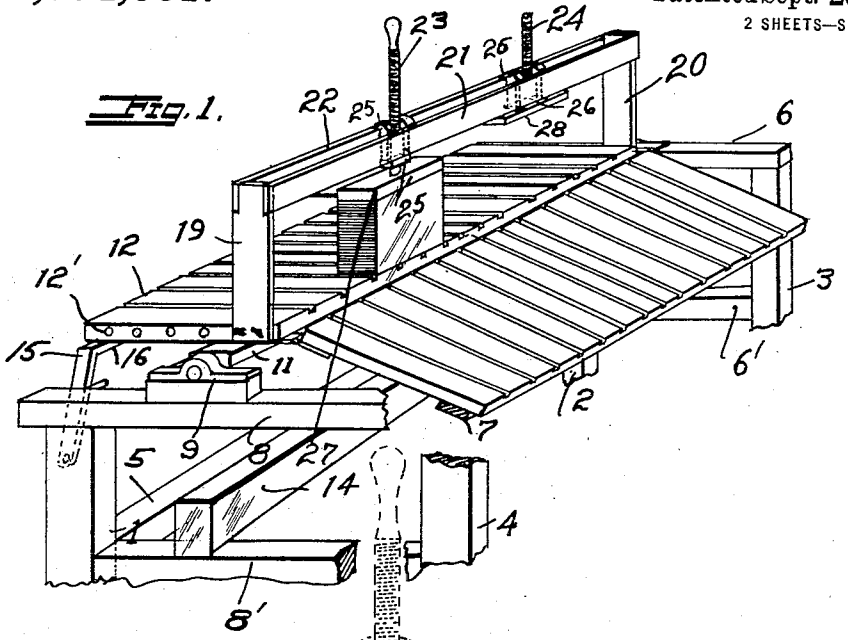
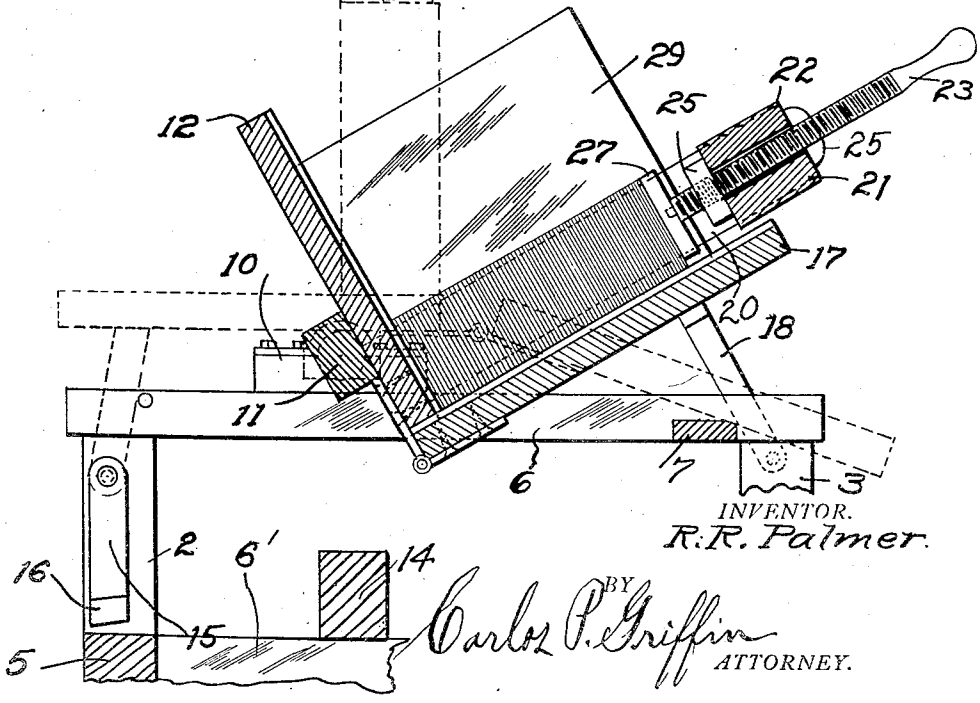


Fig. 2.



INVENTOR.

R. R. Palmer.

BY

Carlos P. Griffin

ATTORNEY.

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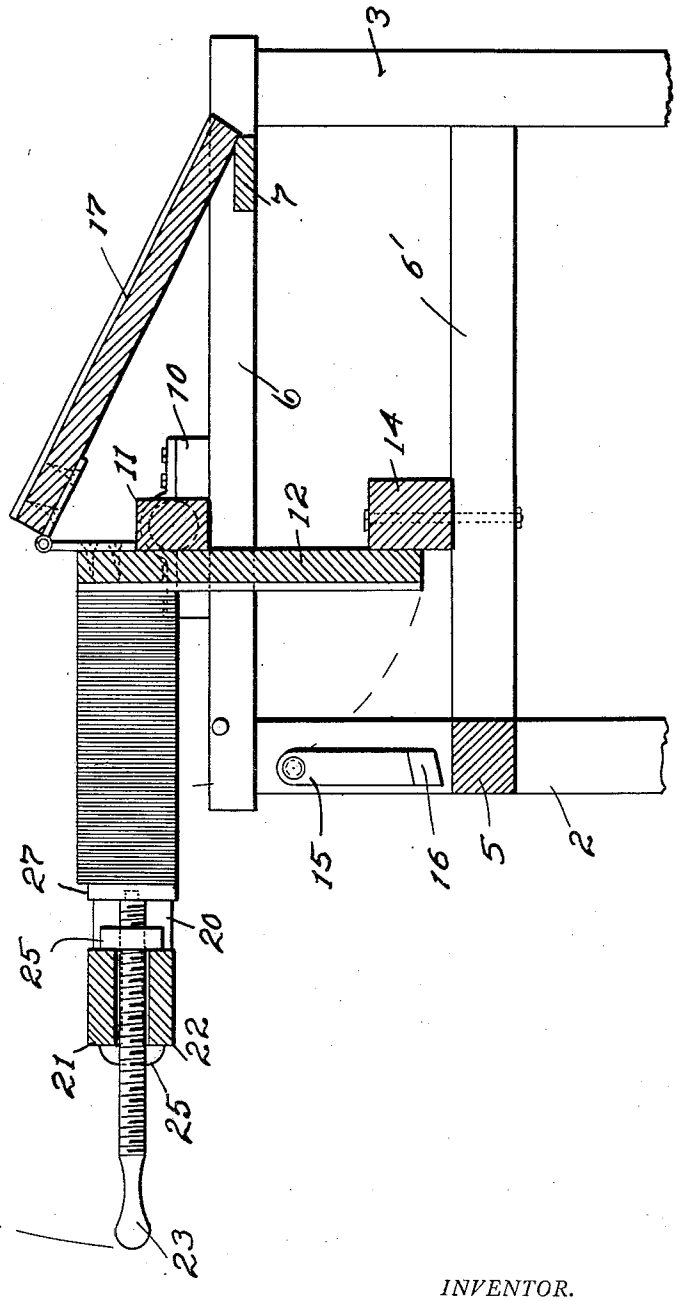


Fig. 3.

INVENTOR.
R. R. Palmer.

BY
Carlos P. Griffin
ATTORNEY.

UNITED STATES PATENT OFFICE.

ROBERT R. PALMER, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-THIRD TO AUGUST E. DRUCKER, OF SAN FRANCISCO, CALIFORNIA.

PAPER-PAD PRESS.

1,354,061. Specification of Letters Patent. Patented Sept. 28, 1920.

Application filed December 3, 1919. Serial No. 342,130.

To all whom it may concern:

Be it known that I, ROBERT R. PALMER, citizen of the United States, residing at San Francisco, in the county of San Francisco, State of California, have invented a new and useful Paper-Pad Press, of which the following is a specification in such full and clear terms as will enable those skilled in the art to construct and use the same.

This invention relates to a press used for alining and holding pads of paper preparatory to cutting or preparatory to gumming the edges into pads and its object is to provide means for conveniently assembling the sheets in an accurate pile as well as to bring sufficient pressure thereon to make solid pads when gummed.

Another object of the invention is to place the paper in a convenient position for assembling and then when the desired number of sheets have been piled up to change the position of the pile of sheets to make it easier to apply the gum to the edges of the several pads.

It will be understood by those skilled in the art that pads are often provided with a card back and a paper or cloth front to which the gum on the edge of the pad for holding the sheets together may be applied in a single operation and it is necessary to lay up the sheets and cards alternately until the whole number desired has been piled up and in order to apply the gum satisfactorily it is necessary to provide means whereby the edges to be gummed will be alined and whereby the alining means may be removed for the application of the gum.

The press is placed in a position when the sheets are being assembled to cause them to drop into place by gravity and when assembled the press is then turned so the edges to be gummed are turned to a convenient position for gumming as well as to a position such as to make it convenient to separate the several pads when the gum has dried, the press meantime holding all the sheets together.

Other objects of the invention will appear as the description proceeds.

An embodiment of the invention is shown in the drawing in which the same reference numeral is applied to the same portion throughout, but I am aware that there may be modifications thereof.

Figure 1 is a perspective view of the press with a portion broken away for purposes of illustration, and

Fig. 2 is a transverse sectional view of the machine in the position for assembling the sheets and,

Fig. 3 is a transverse sectional view showing the machine in the position for gumming the series of pads held therein.

The numerals 1 to 4 indicate the supporting posts of the press which posts are connected by the rails 5 to 8 inclusive, and by rails 6′ and 8′ and stop bar 14. Supported on the rails 6 and 8 are bearings 9 and 10 for a bar 11 extending across the frame and which bar supports a grooved board 12 adapted to receive the bundle of sheets.

Hinged to the board 12 is a second board 17 with grooves to register with the plane of the grooves in the board 12 and this board is held in a position at right angles to the board 12 by means of the brace 18 pivotally mounted on the post 3. A swinging stop bar 15 with a projecting lug 16 enables the table to be held in the position shown in the Fig. 1.

The board 12 has two posts 19 and 20 at its ends which carry two rails 21, 22 to form an abutment for the pressure screws 23, 24 and their nuts 25, 26 the ends of the screws being connected with the pressure plates 27, 28 for the purpose of holding the sheets of paper tightly together until the gum has hardened.

In operation the two grooved boards are placed in the position shown in Fig. 2 and a loose board 29 is mounted in the one pair of grooves of the two boards and one end of the machine is raised higher than the other by placing the legs on blocks several inches high. The series of sheets are then piled up in the corner thus produced the edges being joggled evenly into alinement. The pressure screw is then turned to press the sheets of the bundle tightly together, after which the support may be turned to the position shown in Fig. 3 and the gum applied to one or more sets of edges as may be desired and after the gum has hardened the support is turned to the position of Fig. 1 and the bundle of sheets may be removed from the press.

In order that the press may be used with different sizes of sheets to bring the pressure of the bar to central portion of the sheet, the edge of the board 12 is provided with a

plurality of holes 12′ at each end for the adjustment of the posts 19 and 20 across said board. It will be understood by those skilled in the art that the end of the press is raised only enough to cause the sheets to tend to slide toward the board 29 but not enough to interfere with the gumming position shown in Fig. 3.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is as follows, express reservation being made of permissible modifications.

1. A paper pad press comprising a frame, a support movably mounted thereon, a second support hinged to the first support, and means to press a bundle of sheets against the first support.

2. A paper pad press comprising a frame, a support movably mounted thereon, a second support hinged to the first support, means to hold a series of pads in a given position on the first support, and means to adjust the position of the two supports for the purpose of assembling a series of pads thereon.

3. A paper pad press comprising a frame, a grooved board movably mounted thereon, a second grooved board hinged to the first board and having grooves to register with the plane of the grooves of the first board, means carried by the first board to secure a series of pads thereto, and means to position the two boards to form a trough or to place one of them substantially level.

4. A paper pad press comprising a frame, a support movably mounted therein, a second support hinged to the first support, three stops on the frame adapted to hold the two supports in a trough position, to hold one support horizontal and to hold that support vertical and means to hold a series of pads on the first support.

In testimony whereof I have hereunto set my hand this 20″ day of November A. D. 1919.

ROBERT R. PALMER.