

(No Model.)

A. E. PALMER.
GLUE PRESS.

No. 495,054.

Patented Apr. 11, 1893.

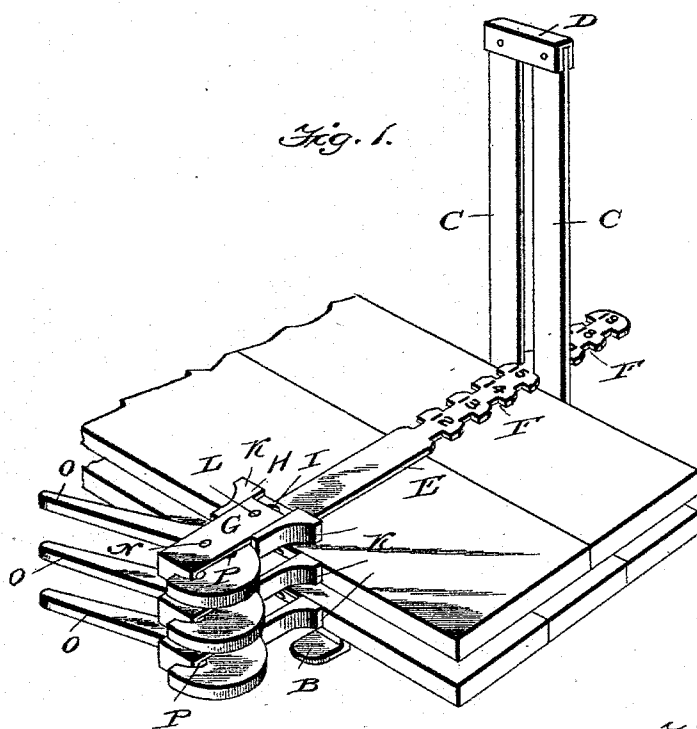


Fig. 2.

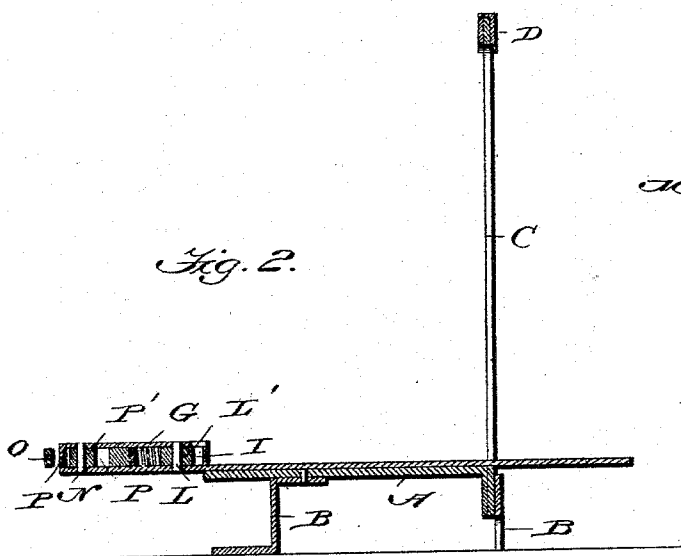


Fig. 3.

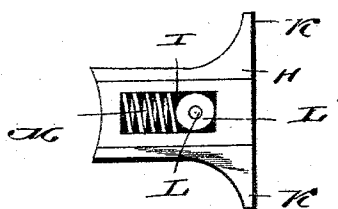
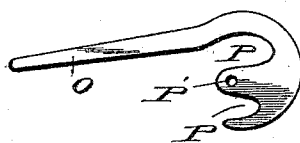


Fig. 4.



Witnesses:

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Attys.

UNITED STATES PATENT OFFICE.

ALBERT E. PALMER, OF OWOSSO, MICHIGAN.

GLUE-PRESS.

SPECIFICATION forming part of Letters Patent No. 495,054, dated April 11, 1893.

Application filed May 14, 1892. Serial No. 433,058. (No model.)

To all whom it may concern:

Be it known that I, ALBERT E. PALMER, a citizen of the United States, residing at Owosso, in the county of Shiawassee and State of Michigan, have invented certain new and useful Improvements in Glue-Presses; 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.

My invention relates to improvements in presses especially adapted for holding glued boards together; and the object of the invention is to provide a simple and easily manipulated device adapted to clamp material or stock of different sizes, and which can be readily moved from place to place if desired.

With these ends in view, my invention consists in the combination with a suitable base or bed, of a vertically slotted standard preferably formed by two parallel spaced uprights rigidly secured to said base, a horizontal graduated clamping bar having one end fitted within the slot of said standard and provided with a sliding clamping block, and an operating lever fulcrumed on the clamping bar and adapted to move the clamping block longitudinally thereon.

My invention further consists in the peculiar construction and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawings—Figure 1 is a perspective view of my improved press. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a detail view of the clamping bar; and Fig. 4 is a detail view of the operating lever.

Like letters of reference denote corresponding parts in the several figures of the drawings, referring to which—

A designates the base or bed of my improved press, which base is mounted on suitable legs B rigidly attached thereto or formed integral therewith; and to one end of said base are rigidly attached two parallel standards or uprights C, connected at their upper ends by a cross head D. If desired a single slotted standard may be substituted for the parallel standards C.

Above the base A is arranged a horizontal clamping bar E which is graduated from an

intermediate point of its length to one end and in the side edges of such graduated portion are formed a series of aligned notches F conforming to the graduations on said bar, the inner end of said bar fitting in the slot of the upright and the notches of the bar receiving the inner edges of the sides of the standard C. The outer end of the notched bar E is bent upon itself and extends parallel to the main body of said bar. Between the overhanging portion G, thus provided in the clamping bar E, and the main body of said bar is fitted a clamping jaw or block H which is capable of a longitudinal movement on the bar and is provided with a central longitudinal slot I and the lateral projecting lugs or ears K which extend beyond the sides of the clamping bar E. The overhanging portion G of the bar E fits in a groove or depression formed in the upper surface of the clamping block H, and said overhanging portion is attached to the body of the clamping bar E by means of a vertical pin or rivet L. Around the pin L is fitted a sleeve L' and between such sleeve and the rear end of the slot I in the jaw H is arranged a coiled spring M. A pin or rivet N connects the overhanging portion G of the clamping bar E with the main portion of said bar in rear of the clamping block H, and on the pin is fulcrumed an operating lever O provided with a suitable handle and with an enlarged cam or eccentric head which bears against the rear end of the clamping jaw H. In the head of the lever O are formed two slots P which are separated by a lug or stud P' through which the pivot pin N extends. By this construction the lever O can be turned so as to lie at right angles to the length of the bar E, the end of the latter bar taking into one of the slots P.

In using my improved press, the clamping bar E is inserted edgewise in the slot formed in the vertical standard C and adjusted to bring the desired notches in line with said standard, after which the bar E is turned down into a horizontal position so that the edges of the standard C enter the notches in the clamping bar, thus holding said bar against longitudinal movement. The stock to be clamped is placed between the standard C and the movable clamping jaw H. By operating the lever O, the jaw H is moved for-

ward and the sections composing the stock are forced closely together. Any desired number of clamping bars can be inserted in the press, and the bar E can be adjusted longitudinally on the base or bed to clamp stock of different widths.

The advantages of my improvements will be readily understood and appreciated by those skilled in the art.

- 10 I am aware that changes in the form and proportion of parts and details of construction of the devices herein shown and described as an embodiment of my invention may be made without departing from the spirit or
15 sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as fairly fall within the scope of the same.

Having thus fully described my invention, 20 what I claim as new, and desire to secure by Letters Patent, is—

1. In a glue press, the combination of a base, a slotted standard rigidly attached to the base, a clamping bar fitted in the slot in the stand-
25 ard, and a clamping jaw carried by and adapted to be moved longitudinally on the clamping bar, substantially as described.

2. In a glue press, the combination of a base, a slotted standard rigidly attached to said
30 base, a graduated clamping bar provided in opposite edges with a series of aligned notches adapted to receive the vertical sides of the standard, a clamping jaw mounted on the

clamping bar, and a lever fulcrumed on said bar and adapted to move the clamping jaw 35 longitudinally thereon, substantially as described.

3. In a glue press, the combination, of a base, a slotted standard rigidly secured to one end of said base, a horizontal clamping bar engag- 40 ing with said standard and having one end bent upon itself, a slotted clamping jaw arranged between the body and overhanging portion of the clamping bar, a pin passing through the slot in the jaw, a coiled spring 45 arranged in the slot in rear of said pin, and a lever fulcrumed on the clamping bar and provided with a cam or eccentric portion which bears against the rear end of the clamping jaw, substantially as described. 50

4. In a glue press, the combination of a base, a slotted standard attached to said base, the clamping bar engaging with said standard, a movable clamping jaw carried by said bar, 55 and a lever fulcrumed on the clamping bar and having a cam or eccentric near one end, said cam or eccentric being provided on opposite sides of the fulcrum of the lever with slots, substantially as shown and described, for the purpose specified. 60

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

ALBERT E. PALMER.

Witnesses:

MYRTIE WILEY,

LOUIS FLICKINGER.