

W. H. BENNETT.
Temporary Binders.

No. 154,942.

Patented Sept. 15, 1874.

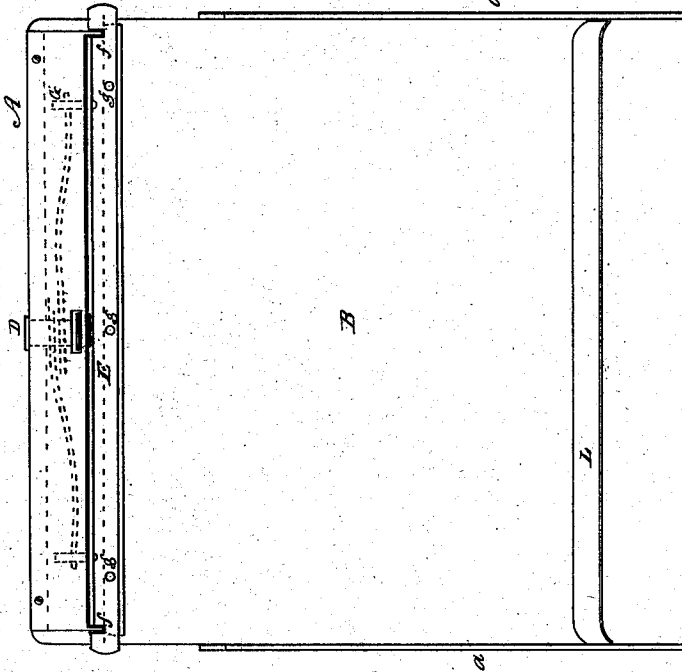


Fig. 1

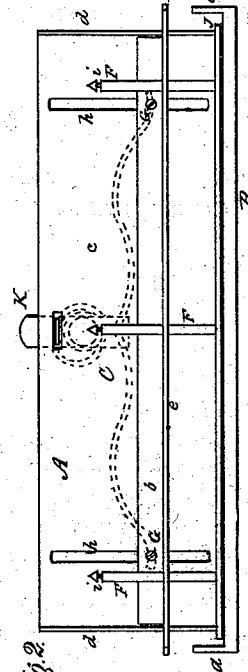


Fig. 2

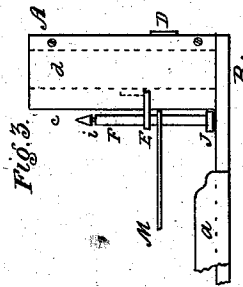


Fig. 3

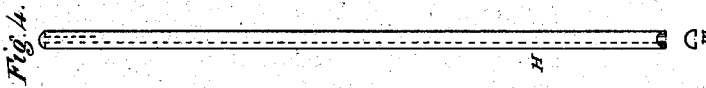


Fig. 4

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IMPROVEMENT IN TEMPORARY BINDERS.

Specification forming part of Letters Patent No. 154,942, dated September 15, 1874; application filed November 18, 1873.

To all whom it may concern :

Be it known that I, WILLIAM H. BENNETT, of the city of New York, in the county and State of New York, have invented new and useful Improvements in Temporary Binders; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 represents a plan view of my improved paper-file; Fig. 2, a front elevation of the same; Fig. 3, a side elevation of the same; and Fig. 4, a plan view of the bar for binding the papers, together with an end view of the same.

Similar letters of reference indicate like parts in all the figures.

This invention relates to certain improvements in a temporary binder, which may be used either for merely filing the papers, or for both filing and binding the same. It consists of certain improved constructions and arrangements of the several parts, by means of which the file or binder is rendered very convenient to handle, strong and durable, adapted to keep the papers in perfect order and preservation, and at the same time simple and inexpensive in its construction, and very easily repaired.

In the drawings, B is the base of the file or the platform upon which the papers are laid, on each side of which is secured a strip, *a*, for the purpose of keeping the edges of the papers straight. At or near one end of the base B is rigidly secured the head A at right angles thereto. This head A is rectangular, and is formed by rigidly securing a rectangular piece of wood or other suitable material to the base B at right angles thereto, and securing to the former, by screw-nails or other suitable means, plates of tin or sheet metal, *c* *d*, which form the face and end plates of the head. The face-plate *c* is secured at a short distance in front of the main portion of the head, thus forming a hollow recess in the head, in which recess is located a spring, C, (shown in dotted lines,) which said spring C is secured upon a pin, D, which passes transversely through the head. The side plates *d* project a short distance in front of the face-plate *c*, so as to form

a flange, *f*, for the purpose of keeping the edges of the paper straight and even. E is the clamping-bar, which consists of a strip of metal turned at right angles, the upper and vertical portion, *b*, of which works closely to the face-plate *c*, and the lower and horizontal portion, *e*, of which presses upon the papers to be filed, and is actuated by the spring C, to the ends of which it is attached by means of the pins G G, which pass through the face-plate and work in vertical slots *h* provided in the same, one end of each of the said pins G being secured to the said spring, and the other end thereof secured to the vertical portion, *b*, of the clamping-bar. In the lower or horizontal portion of the clamping-bar are perforations *g*, through which pass the needles F. The needles F are of steel wire brought to a fine point at their upper ends, and provided with circumferential grooves *i* to receive the binding-bar H, hereinafter described. These needles are secured at their lower ends to a bar, J, which lies flat upon the base B, and is secured thereto by screw-nails or similar means, so that it may be removed at pleasure, and replaced by another similar bar and set of needles. The binding-bar H consists of a semi-cylindrical tube, having a longitudinal groove on its lower side, as seen in Fig. 4, so that it may be fitted upon the heads of the needles F when the file of papers has been completed and is to be removed, the flanges *m* fitting into the grooves *i* of the needles, by which means it is held firmly and securely in position. K is a spring-catch for holding the clamping-bar elevated above the points of the needles while the papers are being placed upon the file. It consists of a straight spring, secured at its lower end to the face-plate *c*, and is provided with a horizontal projection near its upper end, which said projection, passing through a slot in the face-plate, takes into a slot in the clamping-bar. Its upper end is extended a short distance above the head A, so that it may be operated by the fingers or thumb. L represents an elastic band secured to the sides of the base or platform, which, passing over the papers filed, serves to keep them in position. M is a plate, of sheet metal or other suitable material, which is perforated

to fit onto the needles, and is placed between the clamping-bar and the papers to protect the latter from dust and dirt.

When it is intended to bind the papers, the binding-cover is first placed in position upon the base B and needles F. The papers are then filed in such order as may be desired, and when the number to be bound together is completed the binding-bar H is placed in position upon the needles, and the needles, together with the binding-bar and the bar J, are removed to form the permanent binding, the binding-cover having been first placed properly in position.

The advantages of my improvements are briefly as follows: By securing the head, constructed in the manner specified, rigidly to the base and at right angles thereto, a great degree of firmness is imparted to the file, and it is very convenient for being handled, and also keeps the papers in good order. The peculiar construction of the needles in connection with the binding-bar also imparts a large degree of strength and durability. The flanges on the

side plates insure the proper placing of the papers by keeping the edges perfectly straight and even. The peculiar form of the spring and its connection with the clamping-bar insure precision in its action and durability, and the plate M and band L serve to keep the papers in proper position and prevent their getting soiled. The face-plate and end plates are also detachable, which secures ready access to the interior of the head for repairing the same or replacing any part that may require it.

Having thus described my improvements, what I consider to be new, and claim as my invention, is—

The hollow head formed with plates A and c and the end plates d d, the latter projecting to form flanges f f, and the whole secured to the base-board B, and combined with the spring C, clamping-bar E, and needles F.

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Witnesses:

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