

T. J. GAFFNEY & A. P. WILLIAMS.
Temporary Binders.

No. 133,580

Patented Dec. 3, 1872.

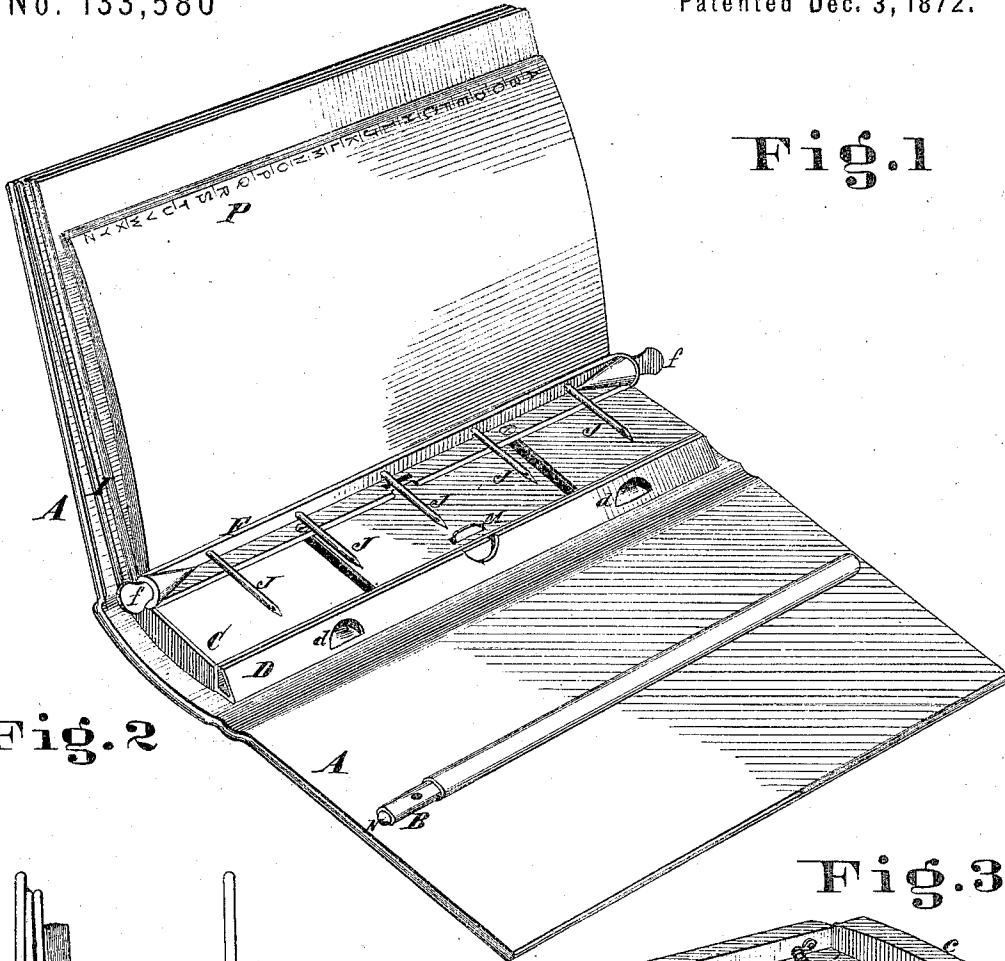
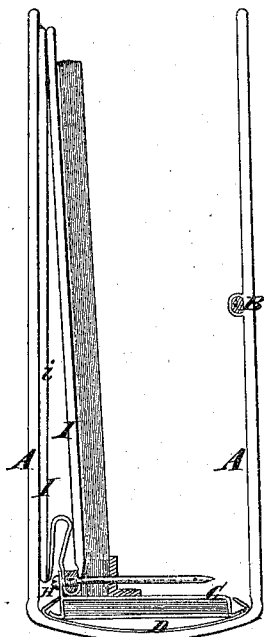


Fig. 1

Fig. 2



Attest
Henry Millward
[Signature]

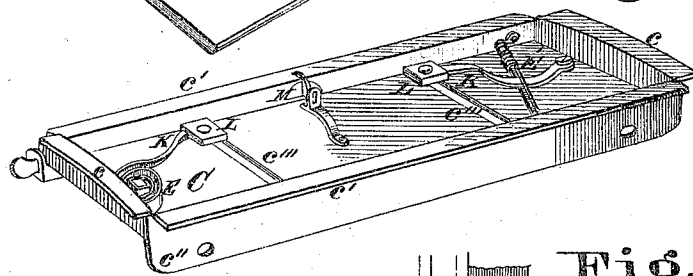


Fig. 3

Fig. 4

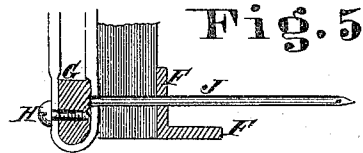
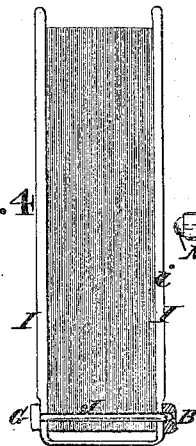


Fig. 5

Fig. 6



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UNITED STATES PATENT OFFICE.

THOMAS J. GAFFNEY AND ALBERT P. WILLIAMS, OF CINCINNATI, OHIO.

IMPROVEMENT IN TEMPORARY BINDERS.

Specification forming part of Letters Patent No. 133,580, dated December 3, 1872.

To all whom it may concern:

Be it known that we, THOMAS J. GAFFNEY and ALBERT P. WILLIAMS, both of Cincinnati, Hamilton county, State of Ohio, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification:

Nature and Objects of Invention.

Our invention relates to the class of devices designed to file and preserve firmly together letters and other papers; and consists, first, in connection with the ordinary cover, of a metallic slotted back, which is provided on one side with a detachable flange or strip armed with needles to penetrate the papers to be filed, and on the other side with a spring-clamp, through which the needles pass, the clamp serving to press the papers tightly together; second, in connection with the ordinary outside cover, of a supplemental or additional cover, which is detachably connected to the metallic back of the outside cover and fitted with the binding-needles, the latter being perforated near their points for attachment to a permanent binding-strip, this additional cover being designed, with the aid of its needles and binding-strip, to permanently bind the papers therein filed, and leave the outer case, with its metallic back and spring-clamp, in a condition to receive another set of needles and additional cover.

Description of the Accompanying Drawing.

Figure 1 is a perspective view of a letter file and binder embodying our invention. Fig. 2 is a cross-section of the same. Fig. 3 is a detached perspective view of the part of the back containing the springs. Fig. 4 is a cross-section of the additional binder-cover and needles when detached from the outer cover and permanently bound by the employment of a binder-strip. Fig. 5 is an enlarged view of one of the needles, the spring-clamp, back of the additional binder, and strip for the needles. Fig. 6 is a face view of the binder-strip which fits over the needles.

General Description.

A is the outer cover, which may be provided with a socket for the safe keeping of the binding-strip B. The metallic back of the

cover A is composed of two parts, C D, of sheet metal, the part C containing the springs E E' for operating the spring-clamp F and having flanges c c', over which the part D is bent, as shown in Fig. 2, to connect the two parts together, the end flanges c c' also serving, after the part D is bent over, to permit of the lapping over of the material of which cover A is composed for the purpose of connecting the cover and metallic back firmly together. To render the bending of the part D over the flanges c' perfectly tight small parts d of the metal are partially cut away and bent firmly inward, as shown in Fig. 1. The part C is also provided with a stiff flange, c'', which forms the basis for the fastening of the needles, the latter being attached firmly to a strip, G, which is secured to the flange c'' by screws H. Between the strip G and the flange c'' the back of the additional or binding cover I is secured, the cover I being threaded over the needles J before the screws H are put in. The position of this cover when connected to cover A is shown in Fig. 2. The spring-clamp F is connected to the springs E E' by arms K and boxes L, the latter moving in slots c'''. The clamp F has apertures, as shown, through which the needles J pass, and handles f, by which the operator forces it back to enable the needles to receive a letter. When the clamp is extended so as to expose the ends of the needles it is held temporarily by spring-catch M. It is released by the finger to enable the clamp to close up against the papers. The needles J are all perforated near the end for the purpose of enabling the connection to the needles of the binding-strip B, which is perforated laterally for the needles to enter, and also perforated longitudinally to admit the wire N, which firmly connects the strip B to the needles, the wire N passing through the perforations in the needles.

When sufficient papers or letters are filed the screws H are removed, and the additional binding-cover is taken out with the accompanying needles, and the loose flap i is folded over onto the needles, when the binding-strip B is applied, in the manner described, so as to form a complete bound book of letters, which can be properly labeled and put away. By the provision of another cover, I, needles J, and strips

B G, the cover A can be used again for receiving new letters. The bound volume is clearly shown in Fig. 4.

Index-sheets P are inserted on the needles first before the letters are filed, on which the names of correspondents can be alphabetically recorded and pages indicated.

Claims.

1. The cover A, slotted metallic back C D c'' c''', and sliding spring-clamp F, in combination with the detachable strip G carrying the fixed needles J, substantially as specified.

2. The combination of cover I, strip G, perforated needles J, strip B, and wire N, for permanently binding papers, substantially as and for the purpose specified.

In testimony of which invention we hereunto set our hands.

T. J. GAFFNEY.

A. P. WILLIAMS.

Witnesses:

FRANK MILLWARD,

J. L. WARTMANN.