

P. ENGLAND.  
TEMPORARY-BINDERS.

No. 194,230.

Patented Aug. 14, 1877.

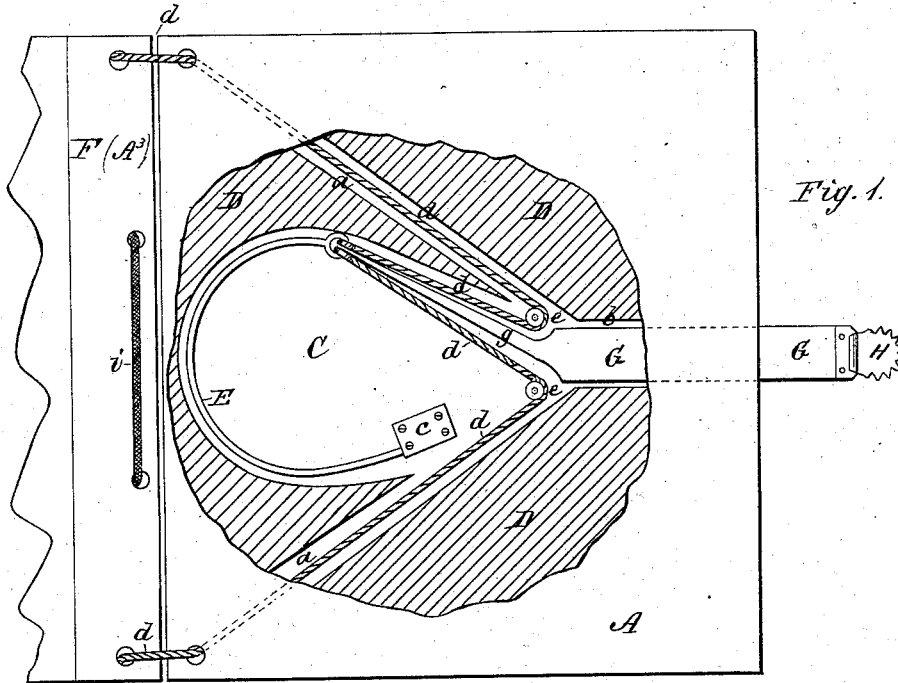


Fig. 1.

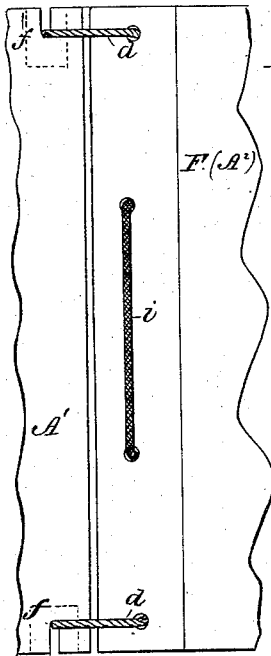


Fig. 2.

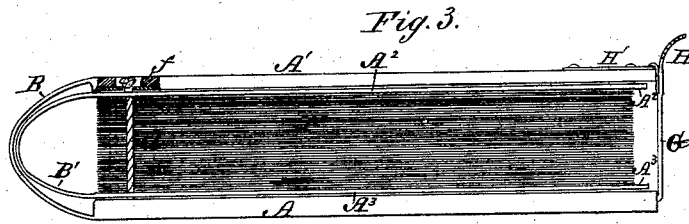


Fig. 3.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

PAREN ENGLAND, OF LINCOLN, NEBRASKA.

## IMPROVEMENT IN TEMPORARY BINDERS.

Specification forming part of Letters Patent No. **194,250**, dated August 14, 1877; application filed July 30, 1877.

*To all whom it may concern:*

Be it known that I, PAREN ENGLAND, of Lincoln, in the county of Lancaster and State of Nebraska, have invented a new and Improved Temporary Binder; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a view of the file with the leaf carrying the devices thrown back and broken away to show said device, and with the index and other leaf partially torn-away for want of space. Fig. 2 is a view of the file opened between the index and the thinner hinged leaf, with the leaves and index partially torn away for want of space. Fig. 3 is an endwise edge view of the file, index, and contents, when closed.

My invention relates to an improved file or binder for letters, invoices, periodicals, sheet-music, &c. It belongs to that class of files which have two leaves connected by a flexible fullness of leather, so as to permit said leaves to fold like a book.

The object of the improvement is to render the backs of the file automatically adjustable to the increasing contents of the same, and to provide means for removing and preserving the contents in their indexed order.

To these ends the invention consists in arranging, in one of the backs of the file, a spring, which is connected with and exercises a tension upon a set of cords which run through the index and connect the two backs, which spring is also connected with and exercises a tension upon a flexible strap running to the outer edge of the back, and carrying a clasp for fastening the said backs.

The invention also consists in the particular construction and arrangement of the index and the file, whereby the said index is made easily removable with its orderly-arranged contents, so that they may be preserved in this form, and a second index substituted for the same in the file, as hereinafter more fully described.

In the drawing, A A<sup>1</sup> represent the two backs of the file, connected by a fullness of leather, B, to permit the expansion of the book. One of the backs, A, is made

slightly thicker than the other, in order to receive the devices which are arranged in a flattened chamber in the same. This chamber C is arranged near the center of the back, and has two grooves, *a a*, running therefrom diagonally to the back, the one to the upper and the other to the lower hinged edge of the back. A third broader groove, *b*, also runs from said chamber parallel with the top and bottom of the back in middle position to the outer edge, the balance of the space in the thickened back, (shown at D D D,) being filled with paper-board and made solid.

In the central chamber is arranged a curved wire spring, E, fastened at one end to a plate, *c*, firmly riveted to the back, and fastened at the other end to the two cords *d d*. These cords pass around pins or rollers *e e*, and then run diagonally in straight lines to the inner corners of the back through the grooves *a a*.

At the inner ends of these grooves, next to the hinged side of the back, these cords emerge from the back through eyelets, pass through eyelets in the index F to retain the latter, and are secured to the opposite back A<sup>1</sup> by knots in the ends of the cords, which are slipped sidewise beneath slotted plates *f* on the other back, whose slots are parallel to the hinged side, and, while allowing the cord to be slipped into them laterally, will not allow the knot on the end of the cord to be pulled through. This constitutes the connection for the two backs, which are made automatically adjustable at these points through the tension of the spring E and the movement of the cords *d d* around the pins or rollers *e e*.

To secure a corresponding automatic adjustment of the outer or clasp edges of the file, a flexible strap, G, is arranged in the broad groove *b*, and is attached by a cord, *g*, to the same end of the spring E to which the cords *d d* are fastened, so that the strap G is made automatically adjustable with cords *d d*, and with an equal tension. The outer end of the strap G emerges from the back at its edge, and carries a clasp, H, which is adapted to be hooked over and secured to any suitable fastening, H', upon the edge of the other back. Now, as the file becomes filled up the increased bulk of its contents exercises a strain upon the spring E, and the latter in yielding allows

the cords  $d d$  to be correspondingly let out to the increased space required between the inner edges of the back, and also allows the strap G to be let out to the increased distance required between the outer edges in fastening the backs.

In constructing and arranging the index F in the file, I form it with two backs,  $A^2 A^3$ , and with a fullness of leather, B', after the same manner as the back of the file, and the backs of this index and indexed pages I fasten together by an elastic cord,  $i$ , passing through eyelets, the outer edges being provided with tapes for tying the same.

My object in constructing the index in this manner, and in arranging it detachably in the backs of the file, is to permit the index, when full, to be taken out and stored away with its contents in order, its place being supplied by a second index. Thus, in removing the index the knots on the cords  $d$  are simply slipped sidewise from the slots in the plates  $f$ , and the cords then pulled through the eyelets in the index to release the latter.

In defining more clearly the scope of my invention, I would state that I do not confine myself to the particular form of spring shown, as a spiral spring, rubber spring, or other form

may be conveniently arranged to operate simultaneously upon the cords  $d d$  and strap G to produce the same effect.

Having thus described my invention, what I claim as new is—

1. In combination with a letter-file, substantially as described, a spring connected with cords for holding the inner edges of the backs, and connected also with a strap carrying the clasp, for the purpose of making the backs of the file self-adjusting to the bulk of its contents, as specified.

2. The spring E, the attached cords  $d d$ , and strap G, carrying the clasp, combined with a letter-file, substantially as described, and located in a chamber in one of the backs of the same, for the purpose specified.

3. The removable index F, provided with hinged backs and having eyelets, as described, in combination with the letter-file having slotted plates  $f f$ , and the knotted cords  $d d$ , for holding in said index, substantially as described.

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Witnesses:

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