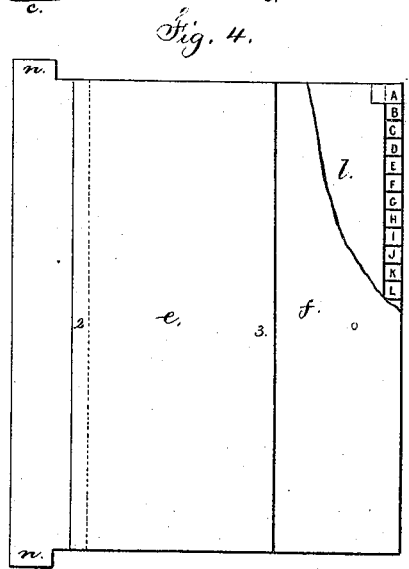
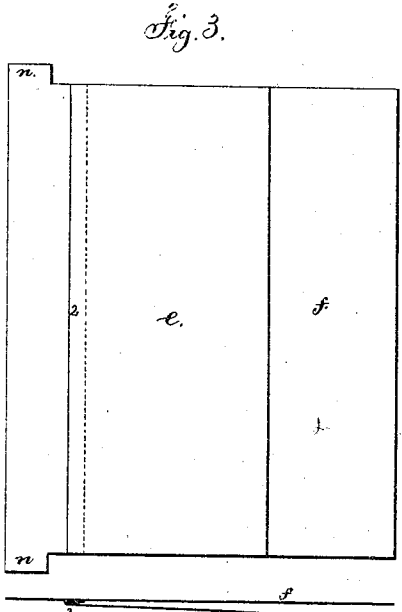
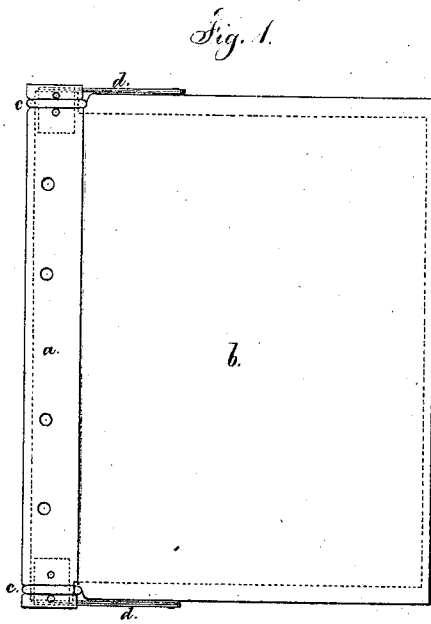
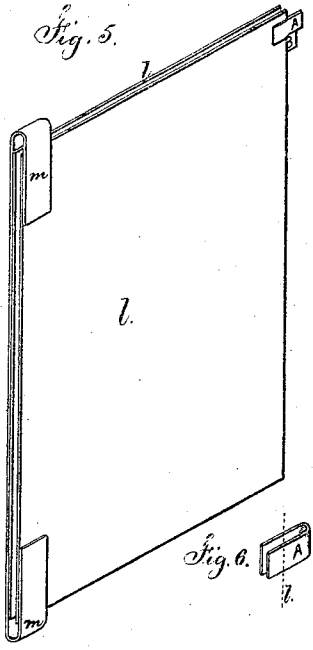


L. P. KEECH.

Improvement in Paper-Files.

No. 132,836.

Patented Nov. 5, 1872.



Witnesses,
Chas. H. Smith
Geo. T. Penckney

Inventor,
Louison P. Keech.
Lemuel W. Ferrell atty

UNITED STATES PATENT OFFICE.

LAWSON P. KEECH, OF NEW YORK, N. Y., ASSIGNOR TO JOHN B. SMITH
AND ELLEN P. KEECH, OF SAME PLACE.

IMPROVEMENT IN PAPER-FILES.

Specification forming part of Letters Patent No. 132,836, dated November 5, 1872.

To all whom it may concern:

Be it known that I, LAWSON P. KEECH, of the city and State of New York, have invented an Improvement in Paper-Files, of which the following is a specification:

This invention is an improvement upon my invention patented March 26, 1872, and a reference is hereby made to the said patent.

I make use of swinging metallic connections for the clamping-bars, whereby they are free to be opened or closed when a letter or sheet is inserted or withdrawn, the elastic bands being distended or contracting; but when the file is opened for inspecting its contents there is no tendency to strain the elastic band at the side next the cover and so loosen the hold of the clamping-bars upon the sheets, because the said metallic connections receive the strain and hold the clamps together.

I make use of a strip of paper connecting one sheet to the next, and also forming the projecting angle, around which the elastic band passes that retains the sheets in place and also connects the clamps. I also provide a paper back, that is attached to one of the fly-sheets, and can be folded back to form a cover or back to the letters or papers bound up by the file, especially after the same are removed from the covers.

The index-letters are attached to the sheets by double paper clips that pass upon both sides of the sheets, and are not liable to be pulled off or torn.

In the drawing, Figure 1 is a side view of the file complete; Figure 2 represents the clamps and the bars or connections; Fig. 3 is a side and edge view of the outside sheet; Fig. 4 is a view of the book detached from the cover, with part of the fly-sheet torn off; Fig. 5 is a perspective view of the index-leaves and the strip to unite them in pairs; and Fig. 6 is a detached view of the index-letter strip.

The cover is made with the clamps *a* united to the covers *b* by flexible material. The clamps *a* have notches or grooves for the reception of the elastic bands *c c*, as in aforesaid patent. The clamps *a* are provided with the connecting-links *d d* that are attached to the clamps near the ends permanently, and

joined to each other or formed as yielding springs, so that the clamps *a* can be moved apart sufficiently for the introduction of the sheets of paper or letters to be filed; but these links so support the clamping-bars that they can only be moved apart bodily, and cannot separate at the edges next the cover, as before usual; but the contents of the file are held firmly, so as not to become detached or disarranged when the file or book is opened.

The end or fly sheets *f* are made, as shown in Figs. 3 and 4, with a flap or back strip, *e*, attached to the first fly-sheet at the edge 2, so that the same may be turned around the back of the book formed by the index-leaves and their contents bound or stitched together.

The edge 3 of this flap *e* may be attached to the fly-sheet at the other side of the book by adhesive material; thereby the back edges of the fly-leaves, index-sheets, and letters will be covered by a sheet of paper for improving the appearance and receiving marks or indorsement. The separate sheets *l* that are employed between the letters or documents are shown in Fig. 5, and these are connected in pairs by strips of paper *m* that correspond with the projections *n* upon the back angles of the fly-sheets *f*. The elastic bands *c* surrounding the projections *m*, formed by said folded strips, hold the sheets *l* into the paper-file, and render it unnecessary to notch such sheets, as in aforesaid patent.

Where the contents of the file are divided up by letters or numbers upon the sheets *l*, I make use of tags, formed of strips of paper, with the letter or number printed thereon. These strips are pasted and folded as shown in Fig. 6, and the edge of the sheet *l* inserted between the same, and the parts of the strip are pressed together so as to be attached by the adhesive material at both surfaces of the sheet *l*, thereby making the index-marks much more durable than those before made.

The projections *m* may be formed by tongues that extend from the sheets *l* themselves, or they may be the separate strips *m* to unite the sheets in pairs passing from one sheet or projection to the other.

I claim as my invention—

1. The bars *a* connected by the links or springs *d*, in combination with the elastic bands *c*, or their equivalents, to draw the bars *a* toward each other and form a clamping-file for papers, as set forth.

2. The strips *m* upon the sheets *l* at the ends projecting beyond the edges of the sheets and uniting such sheets in pairs, and also receiving

around them the elastic bands *c*, as and for the purposes set forth.

Signed by me this 5th day of September, A. D. 1872.

LAWSON P. KEECH.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.