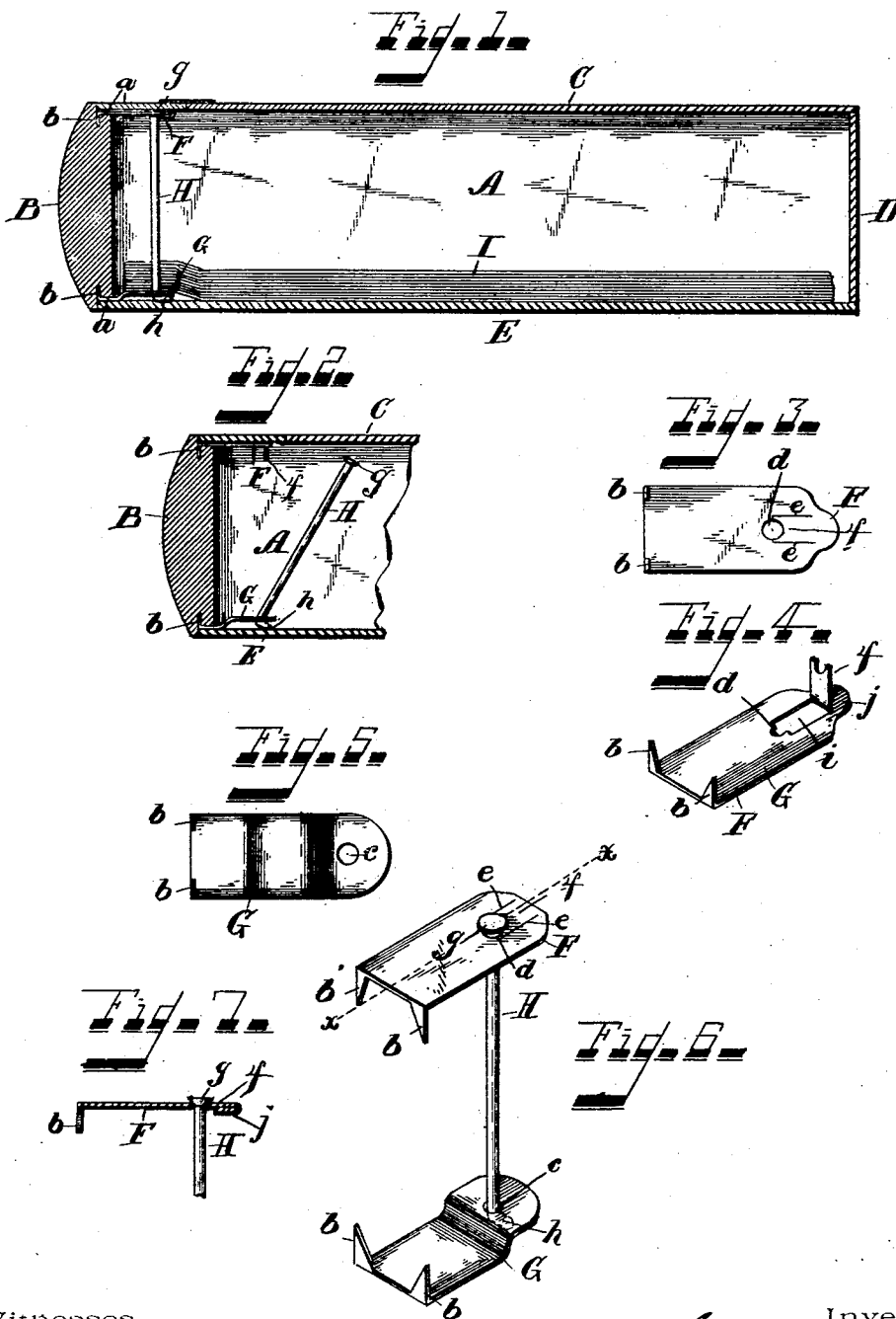


(No Model.)

C. M. CARNAHAN.
PAPER FILE.

No. 573,569.

Patented Dec. 22, 1896.



Witnesses.

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UNITED STATES PATENT OFFICE.

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PAPER-FILE.

SPECIFICATION forming part of Letters Patent No. 573,569, dated December 22, 1896.

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To all whom it may concern:

Be it known that I, CHARLES M. CARNAHAN, a citizen of the United States, residing at Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Letter-Files, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to improvements in permanent and temporary files usually in book form for the filing of letters or other papers; and it has for its object the production of a simple and novel holder for the index-sheets, which is very cheap in construction and efficient in action.

The novelty of my invention will be hereinafter set forth and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a transverse section, in end elevation, of a completed file embodying my invention. Fig. 2 is a corresponding broken view showing the manner of introducing the filing pin or pins for the index-leaves. Fig. 3 is an enlarged bottom plan view of the upper filing-pin holder. Fig. 4 is an inverted perspective view of the same. Fig. 5 is an enlarged plan view of the lower pin-holder. Fig. 6 is an enlarged perspective view of a pin and its holders connected together, as when in the case. Fig. 7 is a detail sectional view on the dotted line *xx* of Fig. 6.

The same letters of reference are used to indicate identical parts in all the figures.

The filing-case A is of the usual or any suitable construction, preferably in book form, with a rounded back B, hinged lid C, and hinged front flap D. Before applying the cover C E to the back B, which is preferably mortised or gained to receive them, as seen at *a*, I embed into these mortises tangs *b*, bent at right angles from sheet-metal strips F G, Fig. 6, which strips constitute the filing-pin holders, and are in pairs located in vertical alinement with one or more pairs to a filing-case. I prefer to use two pairs, one near each end of the case to hold

two filing-pins in the position usually occupied by such pins in ordinary filing-cases, well known to the public.

The lower holder G, as well as the upper holder, is covered and held in place by the covers C E when they are secured to the back B, and, as seen in Figs. 1 and 6, the lower holder has its inner end within the case bent up and provided with a perforation *c*. The upper holder F is likewise provided with a perforation *d*, Fig. 3, and slits *e* are cut from this perforation to form a locking-ear *f*, which can be bent downward, as seen in Figs. 2 and 4.

Each filing-pin H has at its upper end a head *g*, and has its lower end bent substantially at right angles, as seen at *h*. The pin or pins are first inserted through the perforations in the index-leaves I and then have their lower ends inserted through the perforations *c* in the lower holders G, as seen in Fig. 2. They are then pushed back until the heads *g* can be inserted through the opening *i*, afforded by bending down the ears *f*, and are passed up through said openings, and finally the ears *f* are bent back into place to confine the pins in the perforations *d* and prevent their heads from being drawn there-through.

The above construction and method of application form a very durable and secure fastening for the filing-pins, which cannot by any possibility be withdrawn from the cases without destroying the case.

To reinforce the ears *f* when bent up, I bend under the projecting end *j* of the holder, as seen in Fig. 7, so that it lies directly under and aids in supporting the ear *f*.

Having thus fully described my invention, I claim—

1. In a file of the character described, the combination of one or more pairs of filing-pin holders secured to the filing-case, the one of each pair having a perforated end and the other of each pair having a perforated end with slits from said perforation to form a flexible ear, of a filing-pin for each pair having a bent end to engage the first-mentioned perforated holder and an opposite head to enter the opposite holder and be engaged by

bending into place the flexible ear, substantially as described.

2. In a file of the character described, the combination with the back, B and covers, C, E, of the holders, F, G, with tangs, *b*, entering the back and held in place by said covers, the former provided with perforation, *d*, and

flexible ear, *f*, and the latter with perforation, *c*; and the filing-pin, H, having bent end, *h*, and headed end, *g*, substantially as described.

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Witnesses:

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