

(No Model.)

A. GRUNDY.
LETTER FILE.

No. 471,357.

Patented Mar. 22, 1892.

Fig. 1.

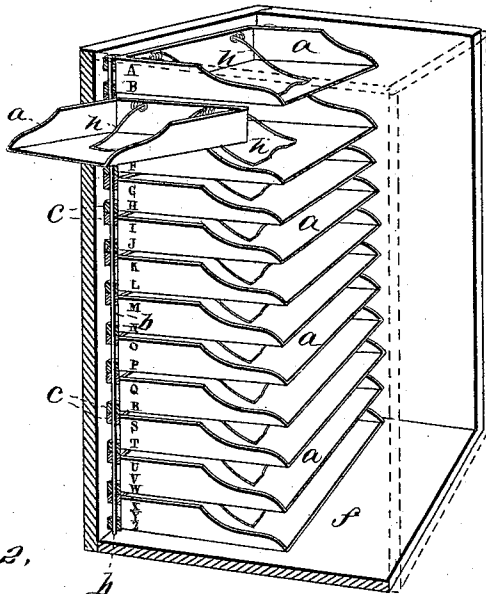


Fig. 2.

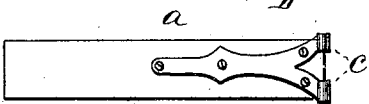


Fig. 3.

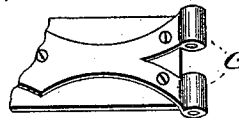


Fig. 4.

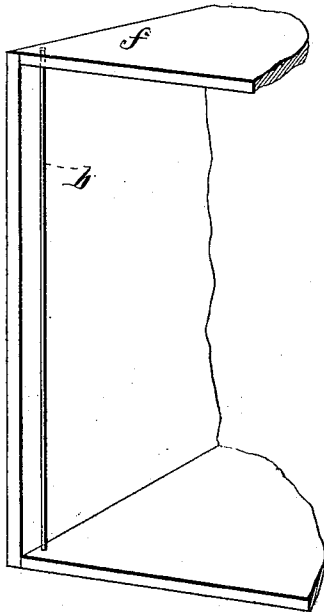


Fig. 5.

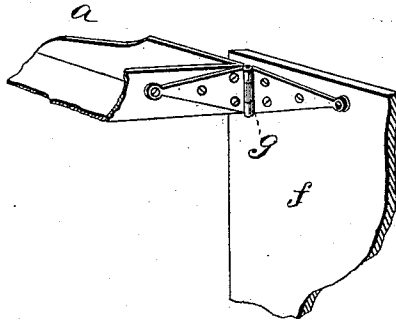
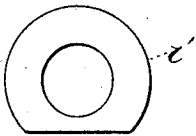


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

ALFRED GRUNDY, OF CEDAR FALLS, IOWA.

LETTER-FILE.

SPECIFICATION forming part of Letters Patent No. 471,357, dated March 22, 1892.

Application filed December 17, 1891. Serial No. 415,424. (No model.)

To all whom it may concern:

Be it known that I, ALFRED GRUNDY, a citizen of the United States, residing at Cedar Falls, in the county of Black Hawk and State of Iowa, have invented a new and useful Letter-File, of which the following is a specification.

My invention relates to improvements in letter-files, in which a series of vertically-arranged trays are pivotally attached to a vertical rod or other fixture and severally rotate on horizontal planes, the whole being inclosed in a suitable case.

The objects of my invention are, first, to provide a cheap, dust-proof, convenient file for letters, bills, and other papers; second, to provide a means by which letters, bills, and other papers may be alphabetically arranged and securely held without disarrangement of other papers or the necessity of perforation; third, to provide a means of securing reasonable secrecy respecting letters, bills, and other papers and at the same time preserving a maximum accessibility and orderly arrangement. I attain these objects by the device illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the entire file in perspective, showing one tray turned out. Fig. 2 is a view of the back of one of the trays, showing the means of attachment to pivot. Fig. 3 is an enlarged section of the hinge attachment, showing projection above and below tray. Fig. 4 is a vertical section of part of case, showing pivotal rod. Fig. 5 is a part of cross-section of a tray and side of case, showing attachment by ordinary strap-hinge. Fig. 6 is a view of the washer separating the hinge-fastenings.

Similar letters refer to similar parts throughout the several views.

The trays *a* are made of any suitable material and of any suitable size and form. On the back of each tray *e* is attached, in any suitable manner, a hinge-like fastening *c*, so arranged as to engage pivotally a vertical rod *b*. The rod *b* being suitably fastened in the top and bottom of the case *f*, as in Fig. 4, the hinge-fastening *c* being so arranged as to project a short distance above and below the back of the tray, as in Fig. 3, the projections being where the fastening *c* engages the rod *b* and in their vertical arrangement on the rod *b*, provides suitable interstices between the trays, allowing them to rotate without

contact. The independent action of the trays is secured by separating the fastenings *c* on the rod *b* by a thin washer *i*, Fig. 6; having a segment cut off the side next the side of the case, which engages the washer on the chord of the remaining arc and prevents its turning. The trays *a* may also be attached to the side of the case *f* by means of ordinary strap-hinges *g*, as in Fig. 5, the interstices being secured by arrangement of the hinges. Each tray is provided with any suitable form of spring-clamp *h* for securing letters or other papers and preventing their interfering with the movement of the trays. The case *f* is so constructed as to allow room for the rotation of the trays, and the side through which the trays are rotated outward is inclosed by a suitable hinged or sliding door (not shown in the drawings) fitted with a suitable lock. The trays are lettered or numbered in a manner to suit the convenience and business of the user.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, in a letter-file, of a series of hinge-like fastenings or arms forming the backs of and having attached trays with a vertical rod to which the arms are pivotally attached and on which they rotate out of a box or case on horizontal planes, all substantially as and for the purpose described.

2. The combination, in a letter-file, of an inclosed box or case and a rod vertically arranged near a corner thereof having its ends fixed in the top and bottom of the box and having pivoted thereon hinge-like arms bearing trays thereto attached fitted with spring-clamps, all substantially as and for the purpose set forth.

3. The combination, in a letter-file, of a hinge-like fastening *c*, constructed so as to engage pivotally a vertical rod *b*, and trays *a*, to which the fastenings *c* are attached, all substantially as and for the purpose herein described.

4. In a letter-file, the combination of hinge-like fastenings *c*, a vertical rod *b*, and a washer *i*, having a segmental portion cut off and separating the fastening *c* on the rod *b*, all substantially as and for the purpose described.

ALFRED GRUNDY.

Witnesses:

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W. M. FIELDS.