

(No Model.)

R. J. EWIG.
PATTERN FILE.

No. 498,541.

Patented May 30, 1893.

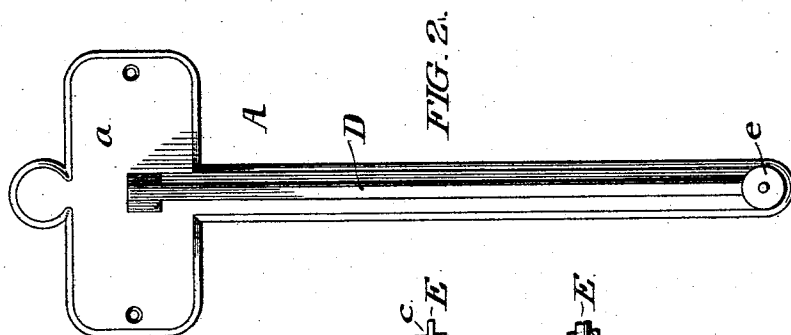
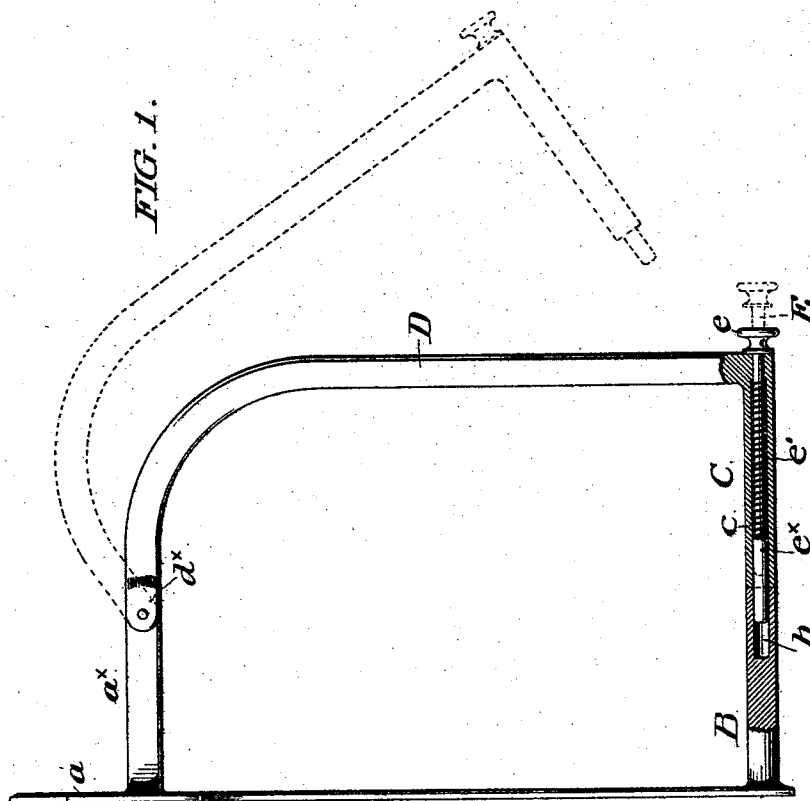


FIG. 3.

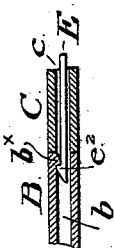


FIG. 4.



WITNESSES:

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PATTERN-FILE.

SPECIFICATION forming part of Letters Patent No. 498,541, dated May 30, 1893.

Application filed January 18, 1893. Serial No. 458,872. (No model.)

To all whom it may concern:

Be it known that I, ROBERT J. EWIG, a citizen of the United States, residing at Morton, in the county of Delaware and State of Pennsylvania, have invented a certain new and useful Improvement in Pattern-Files, of which the following is a specification.

My invention relates to a class of devices employed to secure and retain a number of garment patterns, documents, newspapers, or similar articles, when not in use, in which the several articles are pierced and engaged by a shank or needle, as opposed to the class of files in which the articles filed are secured by being inclosed or boxed.

It is the object of my invention to provide a file adapted to support or bind together a number of documents not in use, and so arranged that any selected one of the documents may be removed without removing others.

In the drawings I show and herein I describe a preferred form of a convenient embodiment of my invention, the particular subject-matter claimed as novel being hereinafter definitely specified.

In the accompanying drawings, Figure 1 is a view in side elevation, and partly in section, and Fig. 2 a view in front elevation of a device conveniently embodying my invention. Figs. 3 and 4 are views in detail of modified forms of latches.

Similar letters of reference indicate corresponding parts.

In the embodiment illustrated in the accompanying drawings, the file is shown as made in the form of a hanging device adapted to be supported upon a wall; it is obvious, however, that it may equally well be constructed as a standard or plate to rest upon a desk.

In the drawings, A represents a base plate, provided at its upper extremity with a panel a embodying apertures for fastening-screws, which panel affords a convenient space for the application of a label to indicate the character of the documents supported by the file.

B is a fixed shank, rigid, conveniently integral with, and shown as projecting horizontally from the lower portion of, the base plate A.

C is what I term a movable shank, the same

being conveniently of about the same length and diameter as the fixed shank, and mounted for support upon or formed as a part of a swinging arm D, the arrangement being such that said movable shank is normally maintained in axial alignment with, and in contact with the end of, the said fixed shank. The upper end of the swinging arm D is pivotally connected to the upper portion of the base plate, which preferably has, as shown in the drawings, a forward extension, a^x , the outer extremity of which constitutes a convenient situation for said pivotal connection. The movable shank and the arm are together adapted to swing or move upon said pivotal connection d^x as an axis toward and from the fixed shank.

As an expedient of construction, the projecting stud a^x is of about the same length as the fixed shank, and the upper portion of the arm D is curved and carried in to meet it. When the swinging arm and the movable shank are down in their normal position as shown in full lines in Fig. 1, the movable shank and fixed shank form practically one continuous shank, and upon these shanks are to be seated or threaded the patterns or documents which it is desired to file.

To place documents upon the file, the arm is swung slightly outward to carry the movable shank away from the fixed shank, and the documents, which are assumed to embody suitable apertures, are inserted between the opposing extremities of the shanks and threaded or seated upon one of said shanks,—whereupon the arm and movable shank are restored to their closed position. When a number of documents are in place upon the file and a selected one of them is to be removed, all the documents upon one side of the selected one are pushed over into position upon the shank other than that upon which the remainder upon the other side of the document rest, leaving the selected document free to be withdrawn between the extremities of the shanks which are slightly separated to allow of said withdrawal.

It will thus be seen that any document, no matter what position with reference to the other documents it may occupy, may be withdrawn at will without removing said other documents. The arm D not only operates to

support the movable shank but also serves, with the base plate, to confine the mass of the documents upon the shanks and against removal in a manner other than that specified.

5 My invention further comprehends the provision of means by which the movable and fixed shanks may be latched or secured together in their closed position to prevent the accidental opening of the device and dis-
10 lodgment of its documents.

In Fig. 1 I show the shanks B and C as embodying bores *b* *c* respectively, which bores register with each other when the shanks are in closed position. The bore *c* extends from
15 end to end of the shank C, opening through the outer as well as through the inner end thereof.

E is what I term a latch pin, provided with a suitable head *e*, and projecting through the
20 bore *c* and into the bore *b*. A spiral spring *e'*, mounted in the bore *c* to bear against a shoulder *e^x* of the pin, and a suitable shoulder in the bore *c*, constantly tends to force said
25 pin inward until the inner end of said pin is within the bore *b* and the head *e* is in contact with the outer end of the shank C. Inasmuch as the pin E and the bore *b* are straight, and the arm D and shank C by virtue of their pivotal connection with the base
30 plate stud *a^x* can only move in a circular direction upon said pivotal connection as an axis, the mere existence of said pin E within the bore *b* secures the movable shank to the fixed shank. When it is desired to remove a
35 document, the pin E is withdrawn sufficiently to carry it out of the bore *b*, whereupon the arm D and the movable shank may be swung outward to allow of the removal of said document, and thereupon, upon swinging the shank
40 back into position and releasing the pin, the latter springs into the bore *b* and secures the file in closed position.

In Fig. 3 I show a modified form of latch in which the bore *b* is provided at one side with
45 a stud *b^x* and the pin E provided at one side with a stud *e²*. In said Fig. 3 the shanks are

shown as locked in closed position by the engagement of the stud of the pin behind the stud of the bore. To unlatch said shanks said pin is simply rotated until the studs clear
50 each other, when said pin may be withdrawn.

In Fig. 4 I show a modified form in which the bore *b* is provided with a thread and the pin E provided with a corresponding thread, and in this arrangement, of course, the parts
55 are latched in closed position, or unlatched, by rotating the pin so that its thread engages with or disengages from the thread of the bore *b*.

Having thus described my invention, I
60 claim and desire to secure by Letters Patent—

1. In combination, the base plate, the fixed shank, the curved swinging arm pivotally attached to an extension of the base plate, the
65 movable shank carried by said arm, and means for securing the movable shank in engagement with the fixed shank, substantially as set forth.

2. In combination, the base plate, the fixed
70 shank, the movable shank, the swinging arm pivotally secured to the base plate, a bore formed in said movable shank, and a pin entered through said bore and adapted to be engaged with the fixed shank, substantially as
75 set forth.

3. In combination, the base plate, the fixed shank, the movable shank, the swinging arm, a bore formed in the fixed shank, a bore formed in the movable shank, a pin entered in the
80 movable shank, provided at its outer end with a head, and at its inner end adapted to enter into and engage within the bore of the fixed shank, substantially as set forth.

In testimony that I claim the foregoing as
85 my invention I have hereunto signed my name this 5th day of September, A. D. 1892.

R. J. EWIG.

In presence of—

F. NORMAN DIXON,
R. M. RUSSELL.