April 29, 1924. **1,492,250**

P. H. L. KLETTE

AUXILIARY FILE ARCH

Filed Aug. 10, 1923

Fig. 1

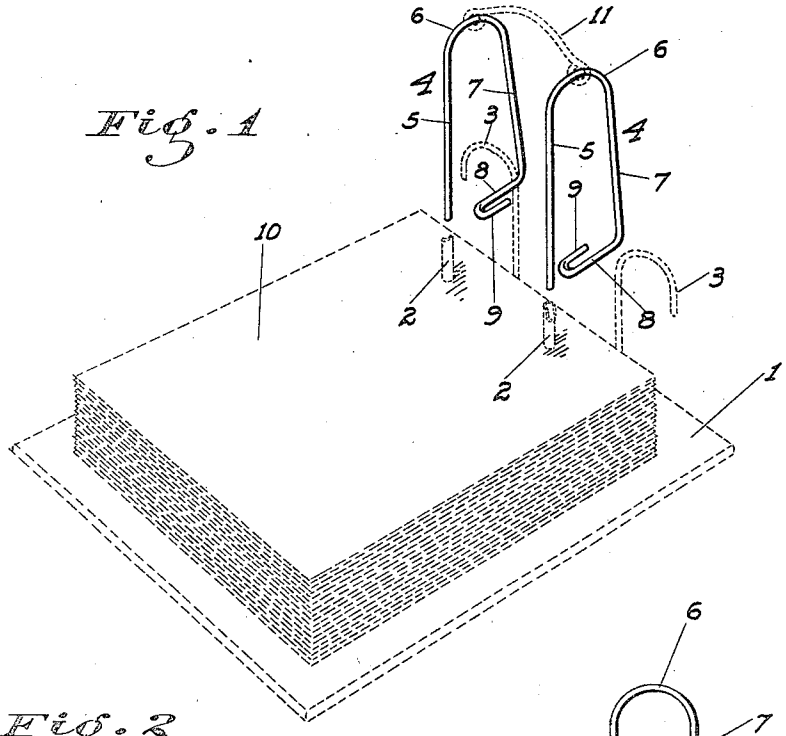



Fig. 2

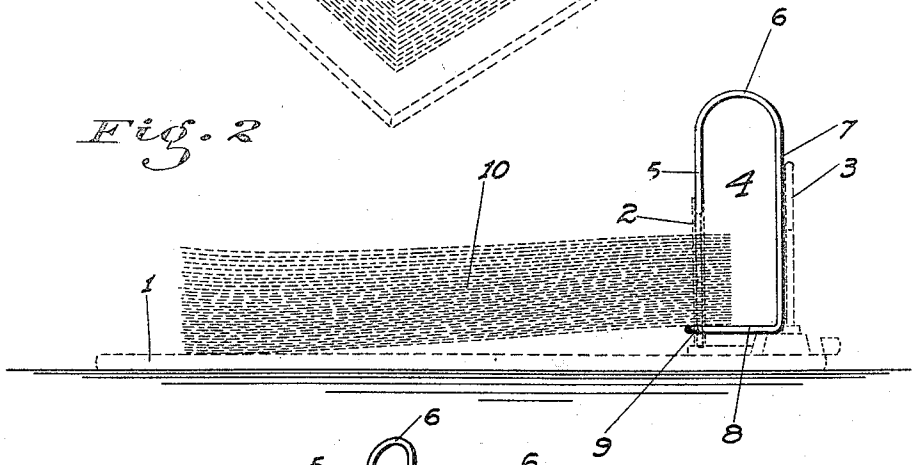
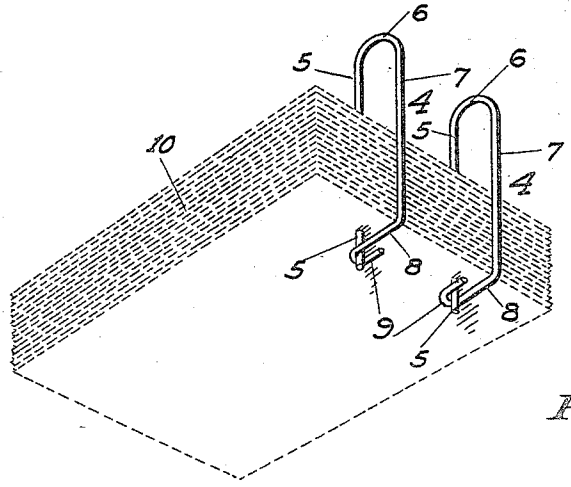



Fig. 3




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# UNITED STATES PATENT OFFICE.

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## AUXILIARY FILE ARCH.

Application filed August 10, 1923. Serial No. 656,665.

*To all whom it may concern:*

Be it known that I, PAUL H. L. KLETTE, a citizen of the United States, residing at O'Neals, county of Madera, State of California, have invented certain new and useful Improvements in Auxiliary File Arch; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in office appliances, and especially to paper filing devices.

There is in common use throughout the offices of this country a type of paper filing device, on which papers to be kept are mounted one by one until a stack of a certain thickness, or to the capacity of the file, is formed, the file comprising a flat base or board, from which vertical posts project upwardly. The papers to be filed are either provided with suitably spaced orifices to aline with the posts, or they are pressed down over the posts so that the latter make their own holes by piercing the papers. In either case the various papers are of course held against displacement and undesired removal from the file.

When it is desired to remove a part of or the entire stack of papers however, and the stack is lifted bodily from the prongs, there is nothing to prevent misalinement of the various punches or holes, in which case to readjust them so that string or other binders may be inserted through said holes, or to enable the papers to be again mounted on the file if desired, necessitates a considerable expenditure of time and labor.

The principal object of my invention therefore is to provide an auxiliary filing device, to be used in connection with a main file of the above described type, by means of which any portion or the whole of a stack of papers may be removed from the main file, and replaced thereon, without the possibility of any of the prong-holes in the papers becoming misalined.

The auxiliary file device may be permanently left in the removed stack of papers if desired, so as to serve as a binder therefor, or if the papers are again replaced on the main file, the auxiliary file will be removed from the stack and placed to one side until its use is again desired.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Fig. 1 is a perspective outline of a certain type of file with a stack of papers thereon, showing my auxiliary file device in position to be applied.

Fig. 2 is a side outline of the file and papers, showing the auxiliary file applied to the main file and in position for the removal of the stack.

Fig. 3 is a perspective outline of a stack of papers mounted on the auxiliary file and removed from the main file.

Referring now more particularly to the characters of reference on the drawings, the numeral 1 denotes the base member of a certain type of file, having adjacent one end a pair of suitably spaced vertical and hollow posts 2, the upper ends of which are adapted to be engaged by the corresponding ends of the usual arch members 3 turnably mounted in corresponding alinement with the posts 2 but therebeyond.

These parts are standard construction and form of course no part of my invention.

My auxiliary file arch comprises a pair of duplicate wire members 4, each independent of the other.

Each member is formed of a single spring wire and comprises a vertical portion 5 of a size such that it may freely enter a post 2 from the upper end.

The length of the portion 5 is preferably somewhat greater than that of the posts, and is connected at its upper end by a preferably curved arch or inverted U portion 6 to another downwardly extending portion 7, normally diverging somewhat from the portion 5 from its upper to its lower end.

From the lower end of the portion 7 a horizontal portion 8 projects toward the portion 5 and terminates in a horizontal hook 9, whose opening faces the member 7 and

which normally terminates at a sufficient distance from the member 5 so that said hook will not interfere with the top edges of a stack of papers 10 mounted on the posts 2, when the wires 5 and 7 are in a plane at right angles to said edges.

The hook is of sufficient size to surround the post 2, and is in a plane somewhat above that of the lower end of the portion 5, as shown in Fig. 3.

If desired, the two auxiliary file members 4 may be coupled together, so as to prevent them from becoming separated when not in use, by a flexible link of suitable nature as indicated at 11 in Fig. 1, this link to have a length when outstretched sufficient to enable the auxiliary file members to be conveniently used regardless of the spacing of the posts 2 of any file.

In operation, the arches 3 of the main file are thrown back as shown in Fig. 1, and the wires 4 dropped into the hollow posts 2, the members 4 as a whole being maintained at right angles to the top edges of the stack 10. The latter is then raised from the base 1 so that the lowest sheet of the stack (if the entire stack is to be removed) is somewhat above the hooks 9. The latter are then caused to engage the posts by pressing the members 7 toward the members 5 with the fingers, as indicated in Fig. 2.

The stack is then removed from the file by hooking the fingers under the arches 6 and pulling the auxiliary files upwardly simultaneously.

The horizontal members 9, as well as the hooks form the support for the stack of papers and cause the same to be raised when the arches 6 are pulled upwardly. As soon as the hooks are raised to a point above the upper ends of the posts they then automatically engage the wires 5 which as previously stated, project below the hooks.

The stack of papers is thus removed from the file and the papers positively maintained in their original positions, without the possibility of their getting out of order, since they are as securely bound and held together as they were on the original file.

The papers may be replaced on the original file by a reversal of the movements just described, or the auxiliary file members may be taken out of the papers by pressing the hooks so as to clear the wires 5, and then withdrawing the latter from the papers.

If it is desired to remove only a portion of the stack from the main file, the papers are separated by hand at the desired point just sufficient to enable the hooks, which would be manually alined with the zone of separation, to be inserted therein and pressed into engagement with the posts as previously described.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfills the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention, as defined by the appended claims.

Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:

1. An auxiliary file arch device for use with files having spaced and hollow vertical posts on which papers to be filed are mounted, comprising wires adapted to extend down into the hollow posts, and means connected with said wires adapted to surround the posts under the papers and form a support for the latter whereby on raising said wires the papers will be raised, and then engage the lower ends of said wires after the latter are raised clear of the posts whereby the papers will then be maintained mounted on said wires.

2. An auxiliary file arch device for use with files having spaced and hollow vertical posts on which papers to be filed are mounted, comprising inverted U-shaped wire members, one arm of each of which is adapted to be inserted in a post, the other arms extending down beyond the papers thereon, a horizontal extension on the lower end of each of said outside arms projecting toward the other arm and adapted to be inserted under the papers, and hooks formed at the outer ends of the extensions normally spaced from but adapted to be pressed into detachable engagement with the posts, the arms inside the posts extending below the plane of the hooks whereby when said arms and hooks are raised clear of the posts the latter will then automatically engage the arms.

3. An auxiliary file arch device for use with files having spaced and hollow vertical posts on which papers to be filed are mounted, comprising inverted U-shaped wire members, one arm of each of which is adapted to be inserted in a post, the other arms extending down beyond the papers thereon, a horizontal extension on the lower end of each of said outside arms projecting toward the other arm and adapted to be inserted under the papers, and hooks formed at the outer ends of the extensions normally spaced from but adapted to be pressed into detachable engagement with the posts, the hooks when the first named arms are raised clear of the posts being arranged to automatically engage the said arms.

In testimony whereof I affix my signature.

PAUL H. L. KLETTE.