Dec. 30, 1924. 1,521,470

E. PEARL

VERTICAL FILING DEVICE

Filed March 10, 1924

Fig. 1.

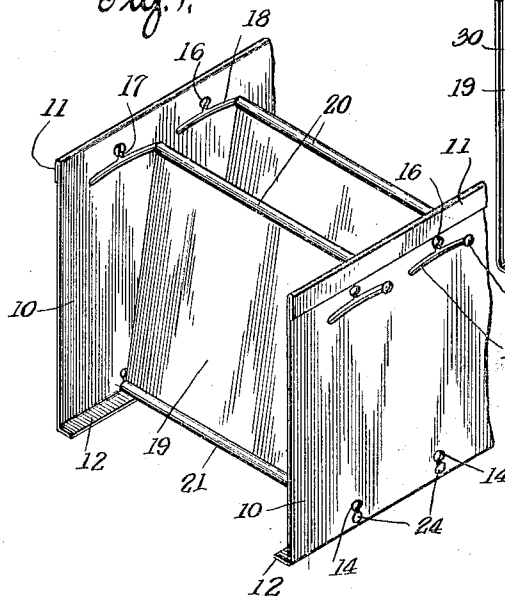


Fig. 2.

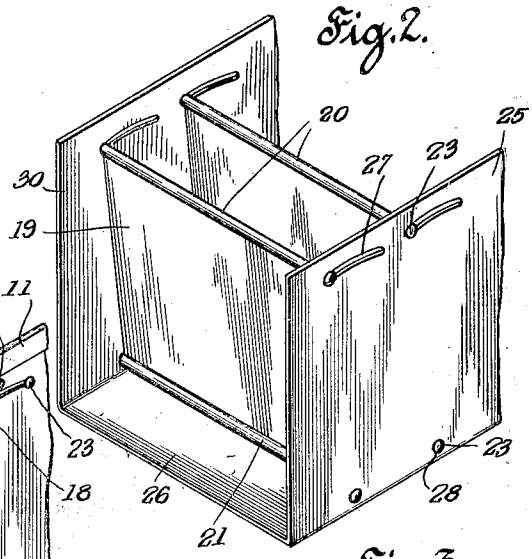


Fig. 3.

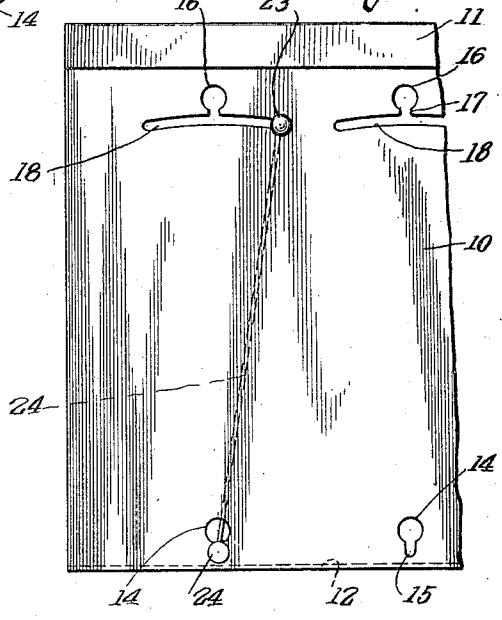


Fig. 4.

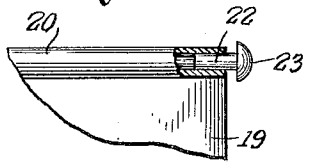


Fig. 5.

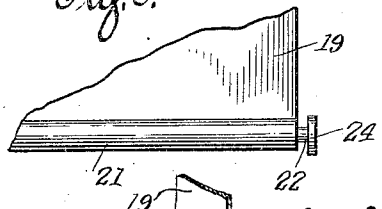
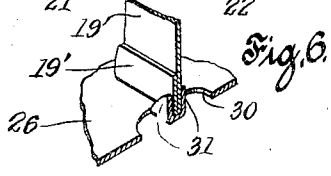


Fig. 6.



INVENTOR

Eugene Pearl

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UNITED STATES PATENT OFFICE.

EUGENE PEARL, OF PASSAIC, NEW JERSEY.

VERTICAL FILING DEVICE.

Application filed March 10, 1924. Serial No. 698,190.

To all whom it may concern:

Be it known that I, EUGENE PEARL, a citizen of the United States, and a resident of Passaic, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Vertical Filing Devices, of which the following is a specification.

This invention relates to improvements in vertical filing devices for letters and like documents and has as one of its objects to provide an all-metal file which may be used as an entity or as an accessory for a drawer or like portion of a desk.

Another purpose is to produce a file of essentially simple construction, in which the leaves are inclinable to a definite extent, in either direction and also readily removable at will.

A further aim is in the provision of a file capable of being taken apart and folded into a thin compact package for storage or transportation and which, upon being assembled, is strong and possessed of indefinitely long lasting qualities.

These several aims and objects are accomplished by the novel construction, combination and arrangement of parts hereinafter described and shown in the accompanying drawing, forming a material part of this disclosure, and in which:—

Figure 1 is a fragmentary perspective view showing an embodiment of the invention as assembled.

Figure 2 is a similar view showing a modification in construction.

Figure 3 is a fragmentary side elevational view of one of the file side members.

Figure 4 is a fragmentary view illustrating one of the upper corners of one of the leaf members.

Figure 5 is a similar view of the lower corner thereof.

Figure 6 is a fragmentary perspective view showing a modified type of plate securing means.

In the form shown in Figures 1 and 3, the numeral 10 is used to designate the side plates, the same being composed of rectangular sheets of metal having their upper edges bent and folded closely upon the outer surface of the plates, their entire length, as at 11.

The lower edges are inturned constituting right angled flanges 12 which act as feet in steadying the structure, and also stiffen the plates in addition to the elements 11.

A plurality of circular openings 14 are formed at spaced intervals at a uniform distance from the bottom, and from these openings extend relatively narrow slots 15, directed downwardly.

In a like manner, directly above these openings, are similar openings 16 having downwardly extending slots 17 communicating with the centers of arcuate slots 18, the radii of which corresponds with the centers of the openings 14.

The leaves 19 are also formed from rectangular sheets of metal of such width as to fit between the sides 10 and are coiled or rolled at their upper and lower edges, respectively 20 and 21, constituting hollow beadings receptive of the cylindrical shanks 22 of headed pins 23 and 24, the upper of which is preferably rounded and the lower pin heads 24 flat as shown, these heads extending slightly outward beyond the side edges of the leaf plates.

When assemblying, the sides 10 are held erect and the leaf plates 19 entered therebetween in such manner that the heads 23 and 24 project through the upper and lower openings, the stem of shanks passing down into the slots, whereupon it is obvious that the levers will pivot on the lower stems while the upper stems can move in the arcuate slots 16, thus permitting a reasonable lateral adjustment. The file shown in Figure 1, is specially adapted for use in connection with a desk drawer or the like, in which the bottom of the drawer acts as a flooring for the file upon which papers are supported at their edges; it is also to be understood that the sides of the drawer operate to support the sides of the file, which is intended to fit neatly in the drawer.

In the modification shown in Figure 2, the sides 25 are formed integral with the base 26 and have in them arcuate slots 27, centrally below which are small perforations 28.

The pins 23 are entered through the slots 27 and forced into the openings in the beadings 22 while the pins 24 are passed through the perforations 28 and pressed into the lower beadings 21, it being understood that in all cases the shanks or stems of the pins are tightly fitted to the beadings and held rigidly therein by friction, and that the leaves swing freely between the sides.

A further change in construction is shown in Figure 6, in which the base plate 26 is cut or sheared as at 30 to produce opposed lugs 31 bent upwardly to extend in parallel and engage between them the lower edge of the partition plate 19, which may be doubled upon itself at its lower edge as at 19'.

The form of construction avoids perforating the lower side walls and also the use of rivets or like fastenings.

As changes of construction could be made within the scope of the invention, it is intended that all matter contained in the foregoing description or shown in the accompany drawings shall be interpreted as illustrative and not in a limiting sense.

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

1. A file comprising a pair of side plates, leaf plates pivoted at their lower edges between said side plates, headed pins carried at the upper edges of said leaves, and means in said side plates for guiding and limiting the swinging motion that can be imparted to said leaf plates.

2. A file comprising a pair of side plates having re-inforced upper edges and inturned flanges at their bottom edges, leaf plates pivoted between said side plates above the flanges thereof, arcuate slots in said side plates, their radius being taken from the axis of the leaf pivots, and headed pins fixed in the upper edges of said leaf plates operable in the arcuate slots.

3. A file comprising a pair of side plates having a row of spaced openings near their lower edges and a series of arcuate slots near their upper edges, the slots having a radius struck from the centers of their lower openings, leaf plates disposed between said side plates, the upper and lower edges of said plates being coiled to form hollow beads, and headed pins having their shanks fixed in said beads, the heads of said pins being disposed on the outer sides of said side plates and the stem of said pins acting respectively as pivots and to move in the arcuate slots.

4. A file comprising a pair of side members containing openings arranged at spaced distances in level rows near the upper and lower edges, the openings having downwardly extending slots and arcuate slots disposed in substantially horizontal relation with which the upper vertical slots communicate, leaf plates disposed between said side members, beadings on the upper and lower edges of said leaf plates, and headed pins having their shanks set in said beadings, the heads of said pins being adapted to pass through the openings in said side elements and their stems to operate in the mentioned slots.

5. A file comprising a pair of side plates and a base web connecting therebetween, a plurality of substantially vertical leaf plates pivoted at their lower edges between said sides in spaced relation at points adjacent to the base web, and means for limiting the movement of said leaf plates on their pivots.

6. An all metal file comprising a pair of side plates, a plurality of leaves pivoted at their lower edges to the side plates to extend therebetween, said side plates having arcuate openings in their upper portions, and pins extending from the upper edges of the leaves into the mentioned openings permitting each leaf to sway individually.

7. An all-metal file comprising a pair of side plates, having registering perforations near their upper and lower edges, a plurality of leaves having headed studs projecting from their edges to pass through the upper portions of the perforations and seat in the lower portions thereof whereby the side plates and leaves are held in place.

8. An all-metal file comprising a pair of side plates having registering perforations near their upper and lower edges, a plurality of leaves having headed studs projecting from their edges to pass through the upper portions of the perforations and seat in the lower portions thereof whereby the side plates and leaves are held in place, the upper perforations being arcuately slotted to permit the leaves to swing limitedly on the studs in their lower edges.

9. A collapsible document file comprising a pair of side plates having registering circular openings and relatively narrow slots extending downward therefrom, a plurality of leaves disposed transversely between the side plates, and headed studs carried by said leaves to pass through the openings and engage in the slots upon being lowered, thus locking the sides to the leaves.

10. A collapsible document file comprising a pair of side plates having registering circular openings and relatively narrow slots extending downward therefrom, the slots having curved branches, a plurality of leaf plates disposed transversely between said side plates and removably engaged at their lower edges thereto, and headed studs carried at the upper edges of the leaf plates extending laterally outward to pass through the mentioned openings and operatively engage in the slots leading from the openings.

In testimony whereof I have signed my name to this specification.

EUGENE PEARL.