G. H. JOHANSON.

FILING DEVICE FOR TRACINGS, MAPS, CHARTS, &c.

APPLICATION FILED AUG. 18, 1911.

1,134,616.

Patented Apr. 6, 1915.

2 SHEETS—SHEET 1.

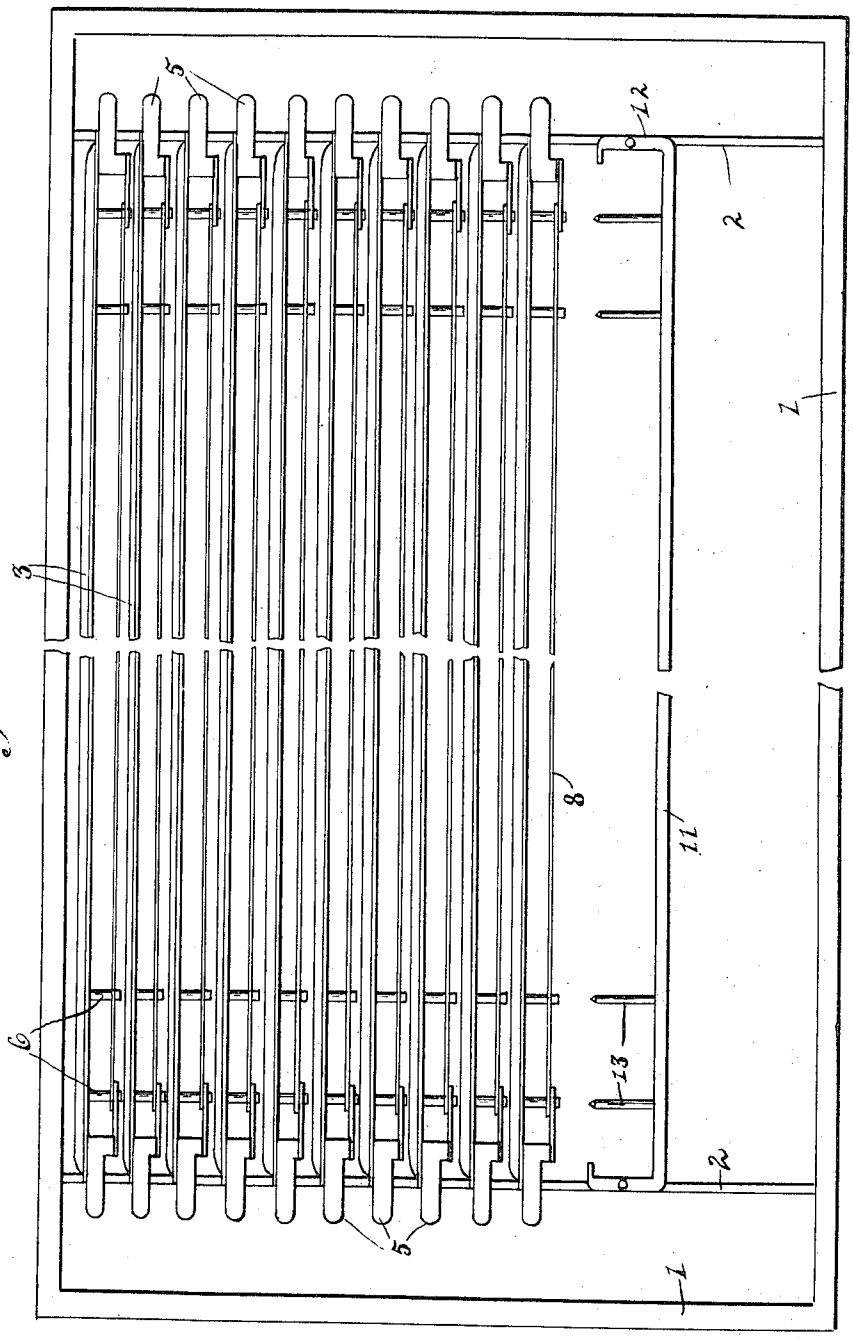


Fig. 1.

WITNESSES

G. M. Spring.

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INVENTOR

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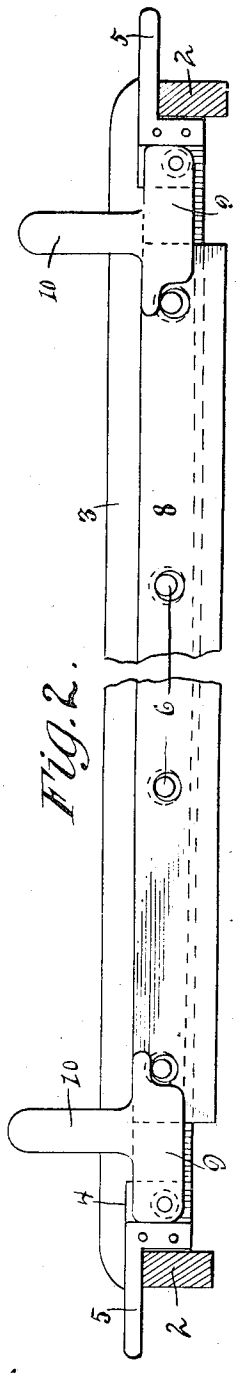


Fig. 2.

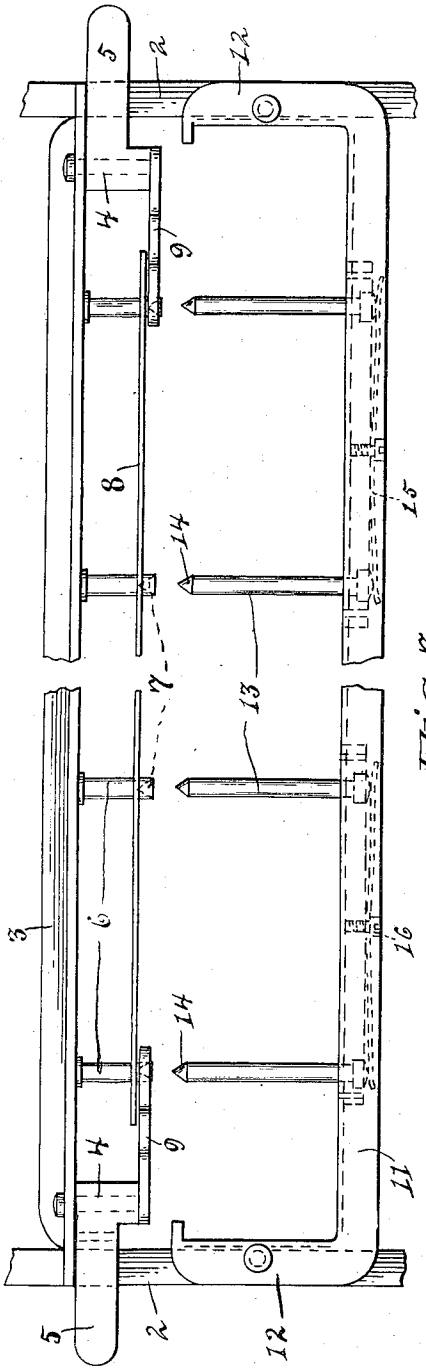


Fig. 3.

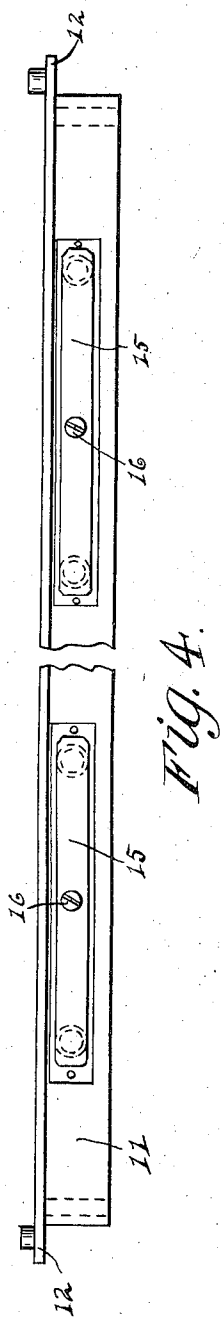


Fig. 4.

WITNESSES

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UNITED STATES PATENT OFFICE.

GUSTAV H. JOHANSON OF JUNIATA, PENNSYLVANIA.

FILING DEVICE FOR TRACINGS, MAPS, CHARTS, &c.

1,134,616. Specification of Letters Patent. Patented Apr. 6, 1915.

Application filed August 18, 1911. Serial No. 644,795.

To all whom it may concern:

Be it known that I, GUSTAV H. JOHANSON, a citizen of the United States, residing at Juniata, in the county of Blair and State of Pennsylvania, have invented new and useful Improvements in Filing Devices for Tracings, Maps, Charts, &c., of which the following is a specification.

My invention relates to filing devices and more particularly to a device designed for use in filing tracings, maps, charts, blue prints and similar flat objects having a comparatively large surface.

In shops or offices where a large number of tracings or blue prints are constantly in use much difficulty has heretofore been found in locating any tracing or print that may happen to be desired at any given time. Moreover even after it is found difficulty is often had in withdrawing it from the file because of the cumbersome and old fashioned filing systems now in use for such papers.

The principal object of my invention is to overcome this difficulty by providing a filing device designed particularly for use in connection with charts, drawings and other objects of a similar nature.

Another object of my invention is to provide a device of the foregoing character which shall be provided with means designed to prevent the papers filed from working loose from the file or being accidentally withdrawn therefrom.

A still further object of my invention is to provide a device of the foregoing nature having certain novel features of construction which will be hereinafter more fully brought out.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views and in which:—

Figure 1 is a top plan view of a series of my filing devices held within the cabinet. Fig. 2 illustrates one portion of my invention in elevation. Fig. 3 is a top plan view of one unit of my filing device and Fig. 4 is a view similar to Fig. 2 but showing the other element of my device.

In carrying my invention into practice I employ a suitable cabinet 1, which may be of any desired construction. As this forms no part of my invention I have not illustrated a cabinet upon an elaborate scale, that outlined in Fig. 1 being merely for purposes of illustration so as to show the operation of my filing device. Held within the cabinet in any desired manner are a plurality of supporting rods 2, which are preferably two in number as illustrated. Slidably supported on the rods 2 is a supporting carrier 3 which is preferably made of angle-iron but which it will be understood may be constructed of any other suitable material. Blocks 4 having laterally extending arms 5 are connected to the opposite ends of the carrier 3 in such manner that the arms 5 extend over and rest upon the rods 2 in order that the carrier may be supported thereon as before mentioned. Extending outwardly from one face of the carrier 3 are a plurality of sheet supporting studs 6 having recesses 7 in the ends thereof, the object of which recesses will be brought out more clearly hereinafter. The studs 6 are designed to receive the tracings, blue prints, charts or other papers filed, which papers will have to be provided with suitable apertures to pass over said studs. It will be understood that these studs may be of any desired number and may be placed in any desired position, one arrangement being illustrated in Figs. 2 and 3 while a different arrangement is shown in Fig. 1.

A clamping plate 8 is provided with apertures conforming in size and position to the studs 6 so as to permit said plate to freely slide over said studs in a manner which will be readily understood. Said clamping plate is locked on said studs and prevented from being forced off thereof by means of latches 9, which are pivotally mounted upon the blocks 4 hereinbefore described. In order to facilitate the operation of said latches the same are provided with upwardly extending handles 10.

The device described above is that element in my filing system which is designed to receive the papers being filed. The latter are passed over the studs in the manner before described and are locked thereon by means of the clamping plate 8 which in turn is held in position by the latches 9. In order however that a given paper may be readily and quickly removed from the files some means is necessary for disposing of those tracings or other papers which are found upon the studs 6 in front of that paper which is to be taken out of the file. In order to accomplish this object I have designed what might be termed a follower or transfer

carrier comprising the body 11 preferably made of angle-iron. The follower is provided with ends which over-hang the rods 2 in the manner shown at 12 in the drawings. Loosely mounted in the follower are a plurality of transferring studs or pins 13 which correspond in number and position to the studs 6 above described. Said pins also have tapered ends as shown at 14 which fit into the recesses 7 in said studs. The heads of the pins are enlarged as illustrated and are normally held with the pins in a projected position by means of leaf-springs 15 the ends of which bear against the heads of the pins and the center portions of which are connected to the follower by means of suitable screws or rivets 16. This manner of yieldingly mounting the pins 13 saves wear and care and also considerable jar when the pins come into contact with the studs 6.

When it is desired to remove a tracing from the studs 6 which tracing may for instance be in the midst of a large number of others, all that need be done is to move the follower toward the other element of the filing device until the pins 13 have their ends seated in the recesses in the studs 6. The latches 9 are then raised and the clamping plate 8 moved over on to the pins 13. Such tracings as are in front of the one which is desired to be removed are also moved over upon said pins thus exposing the desired tracing. The follower is then moved a sufficient distance away from the studs 6 to permit the removal of the desired tracing or other paper after which the tracings carried by the pins 13 may be replaced upon the studs 6 and the whole device locked as in the first case.

It will be understood that the above describes only one unit of my filing device and upon reference to Fig. 1 it will be seen that a large number of such units may be supported within one cabinet in which case it is necessary to provide only one follower.

I desire it to be understood that the foregoing describes merely the preferred form of my invention, and that slight changes in the construction and the arrangement and combination of the various parts may be resorted to without departing from the spirit thereof, provided such changes fall within the scope of the appended claims.

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

1. In a device of the character described, blocks, a carrier connected to said blocks, studs extending from said carrier, a clamping plate slidably mounted on said studs, and latches pivoted to said blocks and adapted to hold said clamping plate on said studs.

2. In a device of the character described, a carrier, studs extending from said carrier, a follower, pins extending from said follower corresponding in number and position to said studs, and means for yieldingly holding said pins in a projected position.

3. In a device of the character described, a carrier, studs extending therefrom, a follower, pins loosely mounted in said follower adapted to engage said studs, and springs carried by said follower whereby said pins are yieldingly held in a projected position.

4. In a device of the character described, supporting rods, a carrier mounted thereon, studs extending from said carrier, a follower slidable on said supporting rods, pins loosely mounted in said follower corresponding in number and position to said studs, and means whereby said pins are yieldingly held in a normally projected position.

5. In a device of the character described, supporting rods, a carrier mounted on said supporting rods, blocks connected to said carrier and adapted to rest on said rods, studs projecting from said carrier, a clamping plate slidable on said studs, means whereby said clamping plate may be locked on said studs, a follower mounted on said supporting rods, and pins carried by said follower corresponding in number and position to said studs, said clamping plate adapted to be moved over on said pins.

6. In a device of the character described, a follower, pins loosely mounted in said follower, heads on the rear ends of said pins, a spring mounted on said follower, the ends of said spring bearing against the heads of said pins whereby said pins are yieldingly held in a projected position.

7. In a device of the character described, a carrier, rods for supporting said carrier, blocks connected to said carrier and adapted to rest on said rods, studs carried by said carrier, a clamping plate mounted on said studs, latches pivotally mounted on said blocks, and said latches adapted to rest on the end of the studs whereby said plate may be held on said studs substantially as described.

8. In a device of the character described, a carrier, rods for supporting said carrier, blocks connected to said carrier and adapted to rest on said rods.

9. In a device of the character described, a carrier, rods for supporting said carrier, blocks connected to said carrier, extensions formed upon said blocks one surface of which forms a shoulder, said shoulder adapted to engage said rods.

10. In a device of the character described, a carrier, rods for supporting said carrier, blocks connected to said carrier and adapted to rest on said rods, studs carried by said

carrier, a clamping plate mounted on said studs, latches pivotally mounted on said block, said latches adapted to rest on the end of the studs whereby said plate may be held on said studs, said studs having recessed ends, a follower, pins projecting from said follower, said pins having tapering ends adapted to enter the recesses in said studs.

11. In a device of the character described, a carrier, rods for supporting said carrier, blocks connected to said carrier and adapted to rest on said rods, studs carried by said carrier, a clamping plate mounted on said studs, latches pivotally mounted on said blocks, said latches adapted to rest on the end of the studs, whereby said plate may be held on said studs, said studs further having recessed ends, a follower, pins mounted in said follower, heads on the rear ends of said pins, said pins further provided with tapering ends adapted to enter the recesses in said studs, springs mounted on said follower, the ends of said springs bearing against the heads of said pins whereby the said pins are yieldably held in a projected position.

12. In a device of the character described, a carrier, studs projecting from said carrier, said studs provided with recessed ends, a clamping plate slidably mounted upon said studs, latches pivotally mounted upon said carrier adapted to hold said clamping plate upon said studs, a follower, pins projecting from said follower, said pins having tapering ends adapted to enter the recess in said studs.

13. In a device of the character described, a carrier, studs projecting from said carrier, said studs provided with recessed ends, a clamping plate slidably mounted upon said studs, latches pivotally mounted upon said carrier, a follower, pins mounted in said follower, heads upon the rear end of said pins, said pins having tapering ends to enter the recesses in said studs, a spring mounted on said follower, the end of said spring bearing against the heads of said pins whereby said pins are yieldably held in a projected position.

14. In a device of the character described, a carrier, rods for supporting said carrier, blocks connected to said carrier and adapted to rest on said rods, studs carried by said carrier, a clamping plate mounted on said studs, latches pivotally mounted on said carrier, projections upon said latches, said projections adapted to rest on the ends of the studs whereby said clamping plate may be held on said studs.

GUSTAV H. JOHANSON.

Witnesses:
WILL H. BAIRD,
JOS. W. NORRIS.