T. HILLER AND W. R. MYERS.

POSTING APPLIANCE.

APPLICATION FILED AUG. 27, 1917.

1,362,310.

Patented Dec. 14, 1920.

4 SHEETS—SHEET 1.

Fig. 1

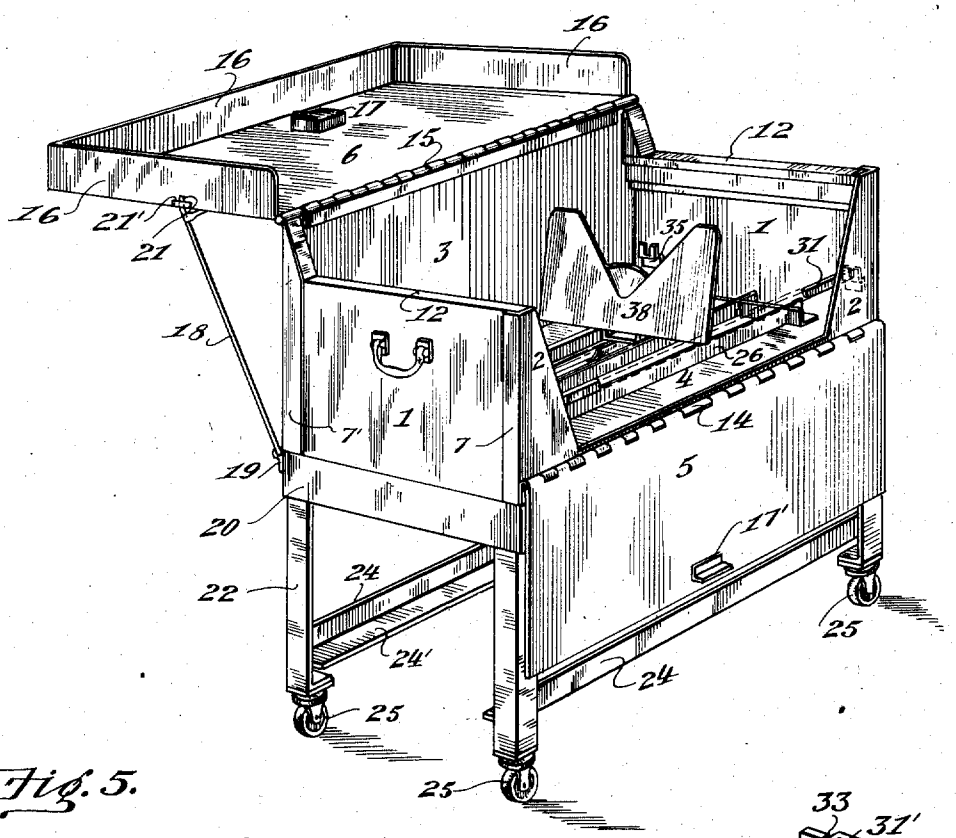


Fig. 5.

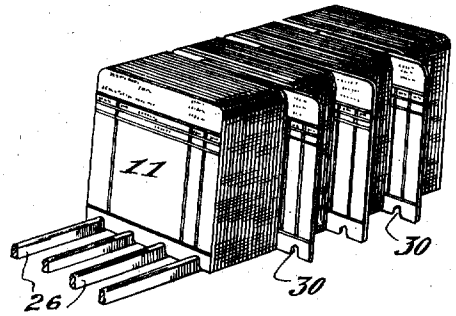
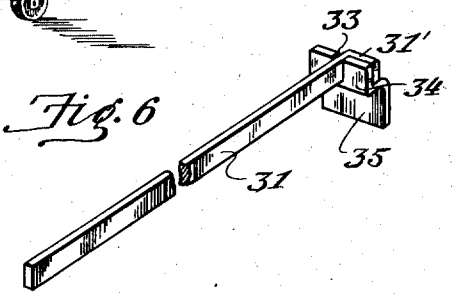


Fig. 6



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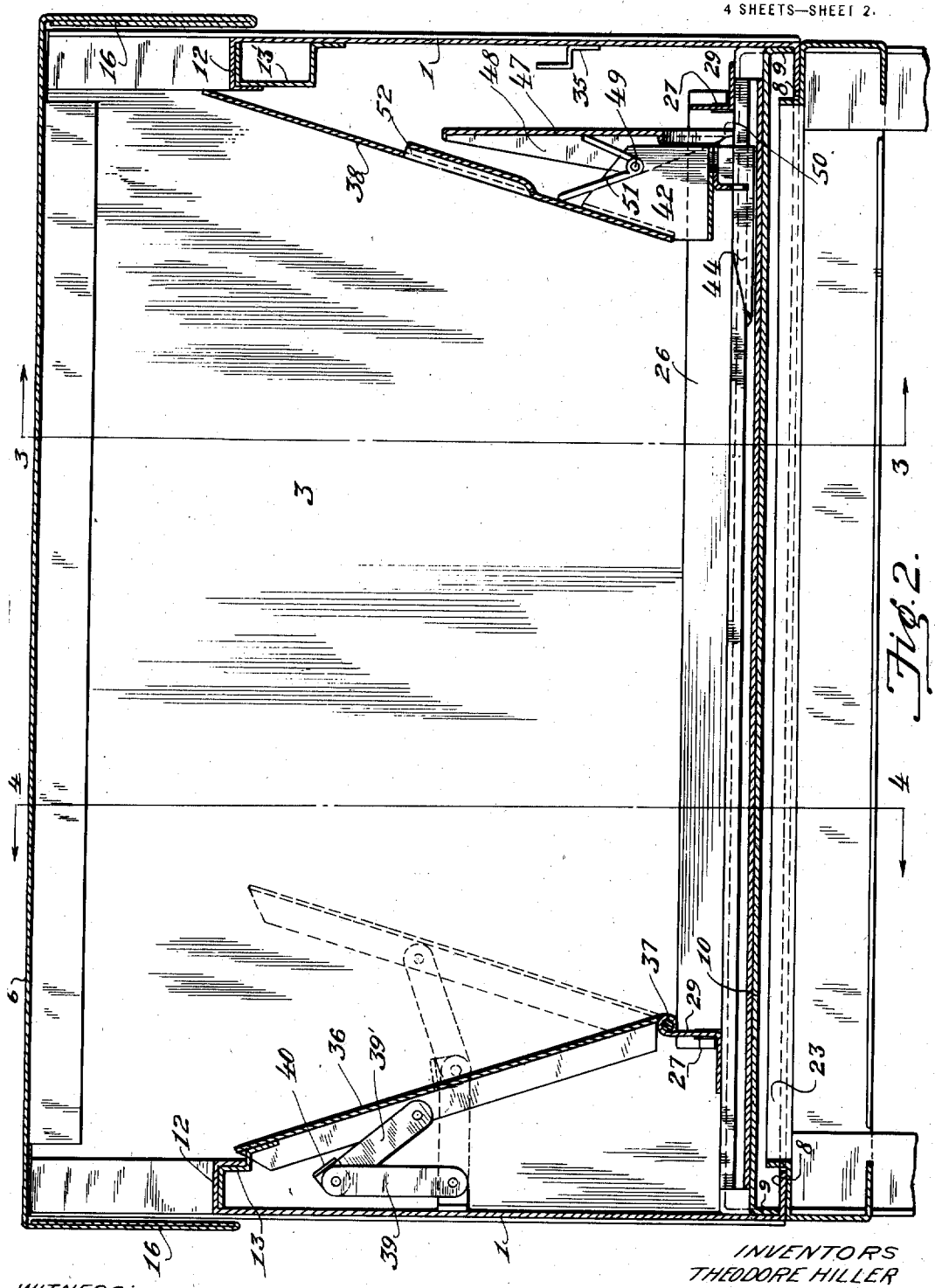


Fig. 2.

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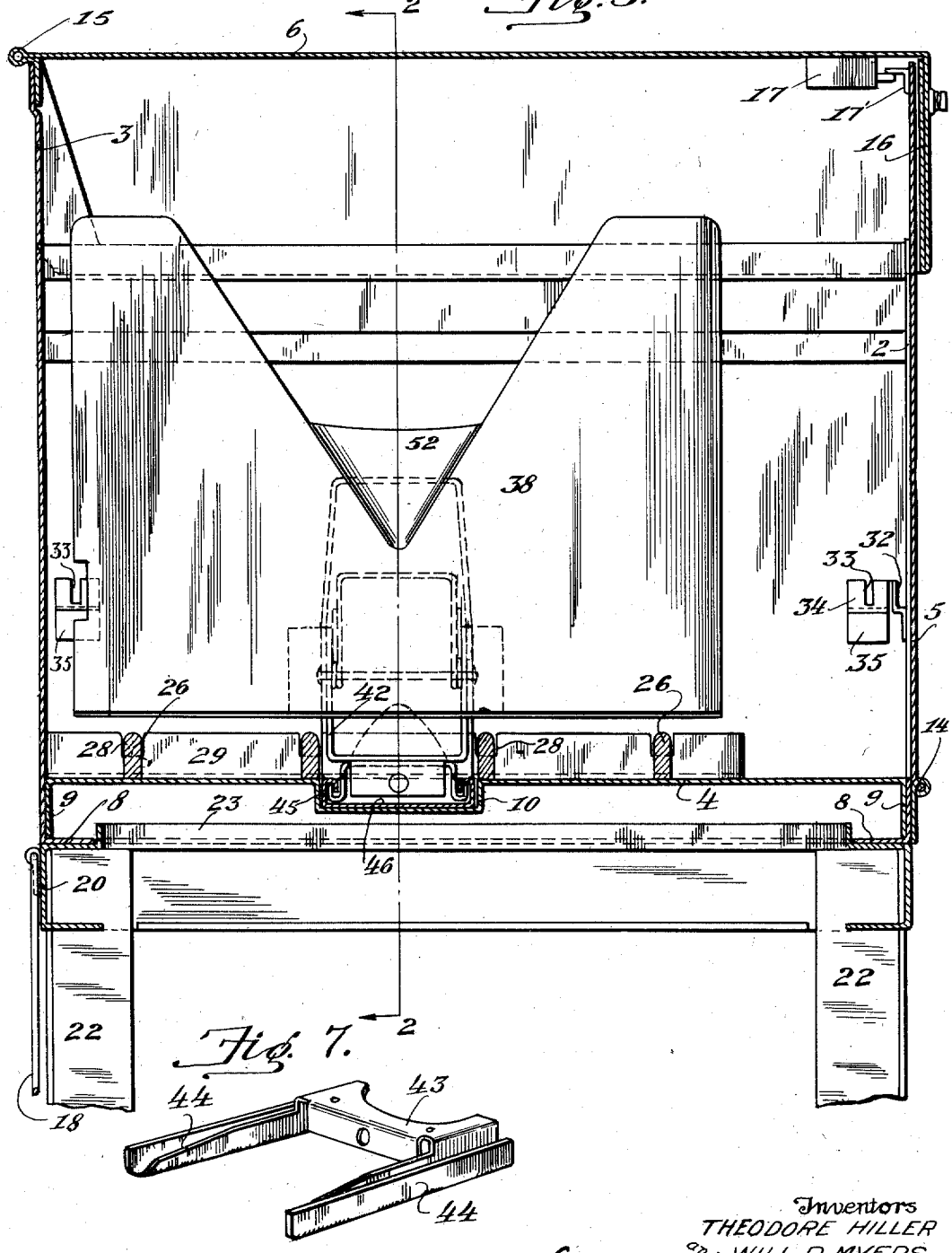
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4 SHEETS—SHEET 3.

Fig. 3.



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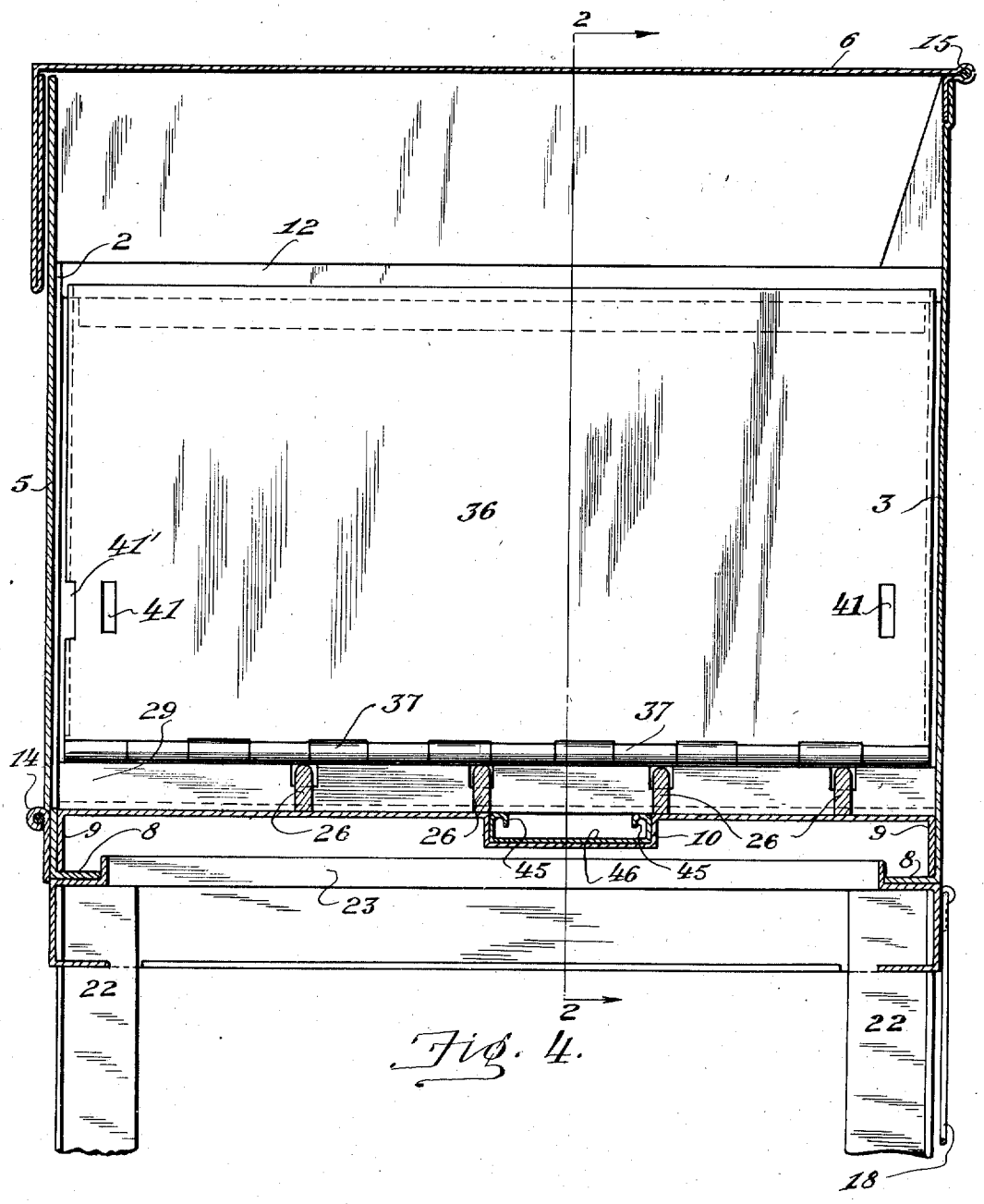


Fig. 4.

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UNITED STATES PATENT OFFICE.

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POSTING APPLIANCE.

1,362,310. Specification of Letters Patent. Patented Dec. 14, 1920.

Application filed August 27, 1917. Serial No. 188,463.

To all whom it may concern:

Be it known that we, THEODORE HILLER and WILL R. MYERS, citizens of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Posting Appliance, of which the following is a specification.

The invention relates to a vertical filing appliance in which a large number of loose leaves or cards are adapted to be segregated, and the object of the improvement is to so construct and arrange such an appliance that it may be used for facilitating the entry or posting of current items or transactions in a large number of individual records or accounts subject to daily or frequent changes.

The appliance is primarily designed and especially well adapted for carrying in a single case, a large number of loose leaves (which would ordinarily require quite a number of books of the loose leaf ledger type of binder), of the character employed in commercial banks for posting the individual accounts of current depositors, the changes in which are required to be immediately posted so as to permit a balancing and closing of the books of the bank at the end of each business day.

More particular features of the improvement relate to the devices employed for conveniently handling such a large number of leaves or cards in a single appliance; for shifting into a conspicuous position, without separating from the series, all the several leaves or cards upon which entries have been made, until the same have been verified; and for providing a suitable case with a drop side for exposing the contents, and a hinged cover serving as a shelf or tray when opened, and which may be closed for completely incasing the leaves for fireproof or other storage, whether the same are in normal series or in shifted arrangement.

These features of the improvement and other ancillary advantages are shown in the preferred embodiment of the invention illustrated in the accompanying drawings forming part hereof, in which—

Figure 1 is a perspective view of the posting appliance opened for use;

Fig. 2, is a longitudinal section of the case on line 2—2, Figs. 3 and 4, showing the swinging abutment at one end and the movable follower at the other end thereof;

Fig. 3, a transverse section on line 3—3, Fig. 2, showing the movable follower in elevation;

Fig. 4, a transverse section on line 4—4, Fig. 2, showing the swinging abutment in elevation;

Fig. 5, a detached perspective view of a pack of leaves or cards showing a few leaves shifted as in the use of the appliance;

Fig. 6, a fragmentary perspective view showing one of the guide bars; and

Fig. 7, a detached perspective view showing the runners of the movable follower.

Similar numerals refer to similar parts throughout the drawings.

The case, as shown, is preferably made of sheet metal and includes, in general, the end walls 1, the side walls 2 and 3, the bottom plate 4, the drop side 5, and the cover 6.

The ends of the side walls are preferably provided with the corner flanges 7 and 7′ overlapping the side edges of the end walls, and the lower edges of all the walls are preferably provided with inturned flanges 8 forming a smooth bottom rim band for resting upon a table, stand or other support.

The bottom plate 4 is provided with the downturned rim flanges 9, abutting the end and side walls of the case and having their edges resting upon the bottom rim band of the walls, so that the bottom plate 4 will be located a substantial distance above the rim band to provide space for the depth of the longitudinal channel 10, bent or formed downward in the bottom plate for receiving certain parts of the follower devices.

Substantially all of the side wall 2 of the case between the end walls 1 thereof, is cut away down to the plane of the bottom plate 4, as shown in Fig. 1, thus giving free access from the side to the contents of the case, which may be the loose leaves 11 shown in Fig. 5; and the height of the end walls 1 is somewhat less than the height of the other side wall 3, for manipulating and inspecting the leaves from the ends of the case.

The upper edges of the end walls are preferably bent inward and downward to form the finishing and strengthening flanges 12, which flanges may be reinforced by the double L-bar 13 at the front end and the channel 13′ at the rear end of the case, as shown in Fig. 2 of the drawings.

The drop side 5 is hinged at 14 to the cutaway edge of the side wall 2 at the corresponding edge of the bottom plate 4, so that it may be swung upward to completely close the open side of the case, as shown in Figs. 3 and 4, or dropped downward to open the same, as shown in Fig. 1; and the cover 6 is hinged at 15 to the upper edge of the other side wall 3, and is provided on its free side and on each end with the wide flanges 16 adapted to overlap the end walls 1 and the drop side 5 for completely inclosing the contents of the case, as shown in Figs. 2, 3 and 4.

The cover 6 and the drop front 5 are provided with coöperating locking elements 17 and 17′ by means of which the closed case may be locked; and a bail 18 is preferably provided at the side of the case, and as shown, is pivoted at 19 to the table or stand 20 upon which the case may be mounted, and is adapted to engage the cover 6 by the entrance of the pins 21 on the corners of the bail into the sockets 21′ at the edges of the case, for holding the cover in the horizontal position when open, to serve as a shelf for receiving original checks, deposit slips and the like, in the use of the appliance.

The table upon which the case may be mounted, is preferably made of the rim channel 20 and the leg angles 22; and the upper inner flange of the channel member 20, is preferably bent upward to form the L-flange 23, thus providing a rabbeted seat extending along both ends and sides of the table for receiving the bottom rim band 8 of the case, as shown in Figs. 2, 3 and 4; in which relation of the parts, the L-flange 23 of the stand, extends upward inside the bottom rim band of the case and securely holds the same in position upon the stand.

The lower ends of the legs 22 of the stand may be connected by the longitudinal bars 24 having flanges 24′ constituting slides for a transfer drawer, (not shown), which may be provided in the stand for receiving extra loose leaves or loose leaves upon which all entries have been made. The legs of the stand are also preferably provided with rollers or casters 25, so that when the appliance is used it can be readily moved from one place to another.

A plurality of spaced longitudinal bars 26 are horizontally mounted or secured upon the bottom plate of the case, and as shown, these bars are provided with the transverse notches 27, adjacent to their ends, which are adapted to be detachably engaged with the complementary notches 28, provided in the upright flanges of the transverse angle bars 29 which are secured by their horizontal flanges to the bottom plate at each end of the case.

The longitudinal bars 26, are equally spaced apart to correspond with the notches 30 in the lower ends of the leaves 11; and the series of bars are located nearer to the side wall 3 than to the open side of the case, so that when the leaves 11 are supported thereon in the usual manner with all of the notches in engagement with the bars, as shown for the greater number of leaves in Fig. 5, the sides of such leaves will be spaced at a substantial distance within the open side of the case.

By this construction and arrangement it is evident that any one or all of the leaves, can be shifted toward the open side of the case and some of its notches reëngaged with a plurality of the spaced bars, as shown for several of the leaves in Fig. 5, and that the leaves thus shifted are distinguished from the leaves remaining in normal position, and the exposed sides of the shifted leaves, which usually contain the balances of deposits or the like, are readily visible for comparison and verification.

The spaced longitudinal bars are preferably located on the bottom plate of the case so that the side wall 3 thereof forms a guide which the sides of large sized leaves may impinge when being placed for engaging all their notches upon the spaced bars, as shown for the greater number of leaves in Fig. 5; and a longitudinal guide bar 31 is preferably mounted by means of end brackets 32 at or near the open side of the case, to serve as a guide for the sides of large sized leaves when the same are shifted toward the open side, for more readily engaging the notches with the spaced bars.

When smaller sized leaves are used, it is obvious that two guide bars may be used, one adjacent to the side wall 3 and one adjacent to the open side of the case, to serve as guides for the respective sides of the leaves, and in such case the ends of these bars may be bent in the form of an L 31′ and engaged in the notches 33 formed in the upright flanges 34 of supplementary brackets 35, secured to the end walls of the case, as shown in detail in Fig. 6.

In one end of the case, preferably the forward end, is provided the swinging abutment 36, which may be hinged along its lower edge at 37 to the upright flange of the same angle bar 29, which engages the spaced bars; and the upper end of this abutment may rest against one flange of the double L bar 13 when the abutment is in its forward inclined position, as shown in full lines in Fig. 2, which is the normal position for the use of the appliance for making or

posting entries in the loose leaves filed therein.

When it is desired to hold the loose leaves or cords in parallel relation against the follower plate 38 at the other end of the case, means are provided for swinging and locking the abutment plate 36 in a rearward inclined position, as shown by broken lines in Fig. 2, which means may comprise the toggle links 39 and 39′, one of which may be provided with a stop flange 40, coming into play just after the toggle joint of the links passes the neutral line, which serves to lock the abutment in its holding position. The abutment plate 36 is provided with suitable slots 41 and a notch 41′ for the passing of the guide bars 31 when the same are used.

The follower plate 38 may be positioned at any angle with reference to the abutment plate of the case, and as shown, is preferably inclined upward and rearward in the usual manner, for permitting the upper ends of the loose leaves to be swung apart for inspecting the faces thereof, and the leaves may be clamped against the follower plate or abutment by swinging the hinged abutment to a rearward inclined position parallel with the follower abutment, as shown by broken lines in Fig. 2.

The follower plate 38 is formed or secured on the forward edge of the U-shaped bracket 42, which in turn is formed or secured on the runner bracket 43 which is provided on each side with a forwardly extending J-shaped runner 44, which runners interengage with and are adapted to slide under the inverted J-shaped flanges 45 formed on the sides of the channel 46 forming a track or guideway and being located in the longitudinal channel 10 formed in the bottom plate of the case, as best shown in Figs. 2 and 3 of the drawings.

The clutch lever 47 is pivoted at 49 by means of its side flanges 48 to the sides of the U-shaped bracket 42, and is provided with the diverging jaws 50 extending downward and impinging the upper edges of the inverted J-shaped flanges 45 of the guideway. The coil springs 51, preferably one on each side, are mounted on the pivot 49, and are provided with legs extending upward against the outer side of the follower plate 38 and also against the inner side of the clutch lever 47; which springs operate to clamp the clutch jaws 50 against the flanges of the trackway, and to stop and lock the follower in any given position, to be readily released, however, by an inward rotation of the upper end of the clutch lever, which may be readily done by placing the thumb against the deflected portion 52 of the follower plate and the fore finger against the upper end of the clutch lever.

In the use of the appliance for temporarily filing and posting items on the loose leaves, as for carrying the individual accounts of the customers of a commercial bank, a pack of such leaves are placed on edge upon the spaced bars 26 in the normal position shown for the greater number of leaves in Fig. 5, with all of the notches of the leaves engaged with the corresponding number of spaced bars.

In this position, one end leaf is located against the abutment plate 36, swung to its normal forward inclined position, and the follower plate is moved by sliding its runners along the guideway, until it abuts the other end leaf in the usual manner, in which position the follower plate is automatically stopped against outward movement by action of the spring clutch 47; and it is evident that the diverging inclinations of the abutment plate and follower plate, permit the upper ends of the leaves to be swung apart for inspecting the faces thereof.

The bookkeeping clerk having a number of checks or deposit slips to enter or post upon the account leaves, moves the posting appliance alongside a typewriter or other table, and after opening the case by swinging the cover 6 open to form a shelf and dropping the side 2 as shown in Fig. 1, the checks and slips to be entered, may be placed upon the cover-shelf within easy reach.

The clerk then readily selects the particular leaf carrying the account in which a withdrawal or deposit is to be entered, and removing it from the other leaves, makes the necessary entry or entries thereon by a typewriter or other means; after which the leaf upon which the entry has been made is returned to the filing appliance, but is shifted forward one or more notches upon the spaced bars 26 so as to expose the right side of the leaf and thereby the balance or total of the entries made thereon, in the position shown for a few of the leaves shown in Fig. 5.

The leaves upon which entries have thus been made are permitted to remain in shifted position until the entries are verified, either by comparison with a duplicate statement of the same account made by another clerk, or otherwise, after which the shifted leaves are returned to normal position upon the spaced bars.

It is evident that the use of one or more guide bars 31, permits the clerk to more readily return or reassemble the leaves in the case, and also that by an adjustment of these bars, sets of leaves of different sizes may be filed in the case. It is also obvious that by the use of a case of greater width than the width of the leaves and by normally locating the extra space on the open side of the case, the shifted leaves are always contained within the walls of the case, whether or not the leaves are in normal or

shifted position, thus permitting the drop front and the cover thereof to be closed at any time.

Suitable handles 53 may be provided on the ends of the case, and when closed, the case may be readily removed from its supporting stand or table, for filing in a fireproof or other securing vault.

We claim:—

1. A posting appliance for loose leaves including a case for receiving the leaves in upright transverse position, the case having a drop side and a cover hinged to the other side and being wider than the width of the leaves to permit a sidewise shifting of the same therein, and an alining bar for the ends of the leaves.

2. A posting appliance for loose leaves including a case for receiving the leaves in upright transverse position, the case having a drop side and a cover hinged to the other side and being wider than the width of the leaves to permit a sidewise shifting of the same therein and one end of the case being lower than said other side thereof.

3. A posting appliance for loose leaves including a case having a drop side, means for alining the leaves in upright position transverse the case, the other side wall being higher than the end walls and drop side, and a cover hinged to the higher side wall.

4. A posting appliance for loose leaves including a case having a drop side, means for alining the leaves in upright position transverse the case, the other side wall of the case being higher than the end walls and drop side, and a cover hinged to the higher side wall having flanges adapted to overlap the end walls and drop side when the case is closed.

5. A posting appliance for loose leaves including a case, having a drop side, means for alining the leaves in upright position transverse the case, the other side wall of the case being higher than the end walls and drop side, and a cover hinged to the higher side wall having flanges adapted to overlap the end walls and drop side when the case is closed, with means for interlocking the cover and the drop side.

6. A posting appliance for loose leaves including a case, means for alining the leaves in different lateral upright positions transverse the case, the case being of greater width than the width of the leaves to permit a sidewise shifting of the same, and a longitudinal bar for guiding the exposed edges of the shifted leaves.

7. A posting appliance for loose leaves including a case, means for alining the leaves in upright position transverse the case, the case being of greater width than the width of the leaves to permit a sidewise shifting of the same, and an adjustable longitudinal bar for guiding one side edge of the leaves.

8. A filing appliance for a series of loose leaves including means for supporting the leaves in upright transverse position, a swinging abutment for the front end of the series and a rearwardly inclined follower adjustable to the rear end of the series, the abutment being normally swung into forwardly inclined position to permit a separation of the upper ends of the leaves, and means for swinging and locking the abutment into rearwardly inclined position for clamping the series of leaves against the inclined follower.

9. A filing appliance for a series of loose leaves including horizontal means for supporting the leaves in upright transverse position, a swinging abutment for the front end of the series and a rearwardly inclined follower adjustable to the rear end of the series, the abutment being normally swung into forwardly inclined position to permit a separation of the upper ends of the leaves, and means for swinging and locking the abutment into rearwardly inclined position for clamping the series of leaves against the inclined follower.

10. A filing appliance for a series of leaves including means for supporting the leaves in upright transverse position, an outwardly inclined abutment for one end of the series and an outwardly inclined follower abutment for the other end of the series, and means for swinging one of the abutments into inwardly inclined position for clamping the leaves against the other abutment.

11. A filing appliance for a series of loose leaves including means for alining the leaves in transverse upright position, an abutment for one end of the series, a follower plate for the other end of the series, and a guideway for the follower plate, there being J-shaped runners on the follower plate in sliding engagement with inverted J-shaped flanges in the guideway.

12. A filing appliance for a series of loose leaves including means for alining the leaves in transverse upright position, an abutment for one end of the series, a follower plate for the other end of the series, and a guideway for the follower plate, there being J-shaped runners on the follower plate in sliding engagement with inverted J-shaped flanges in the guideway, and a spring clutch on the follower plate for engagement with the guideway.

13. A filing appliance for loose leaves including a case with means for supporting the leaves in transverse upright position therein, said case having one side open and having end walls of less height than the wall of the other side.

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