

Dec. 9, 1930.

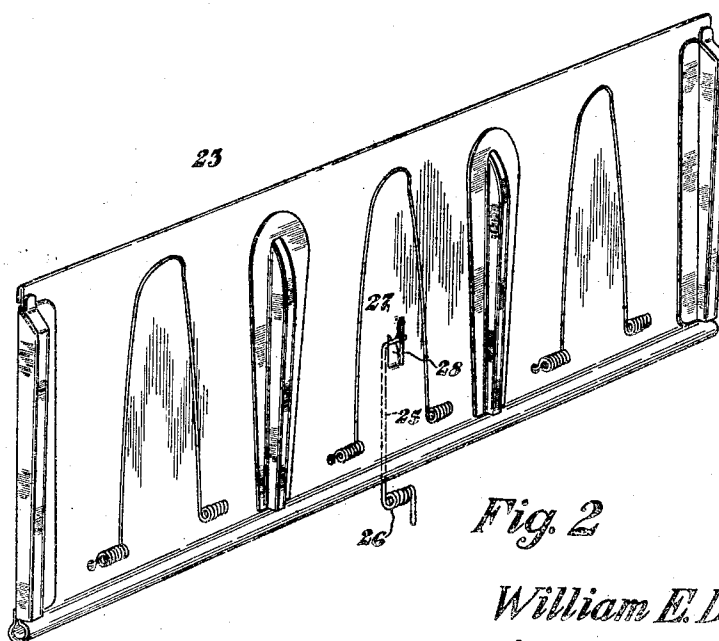
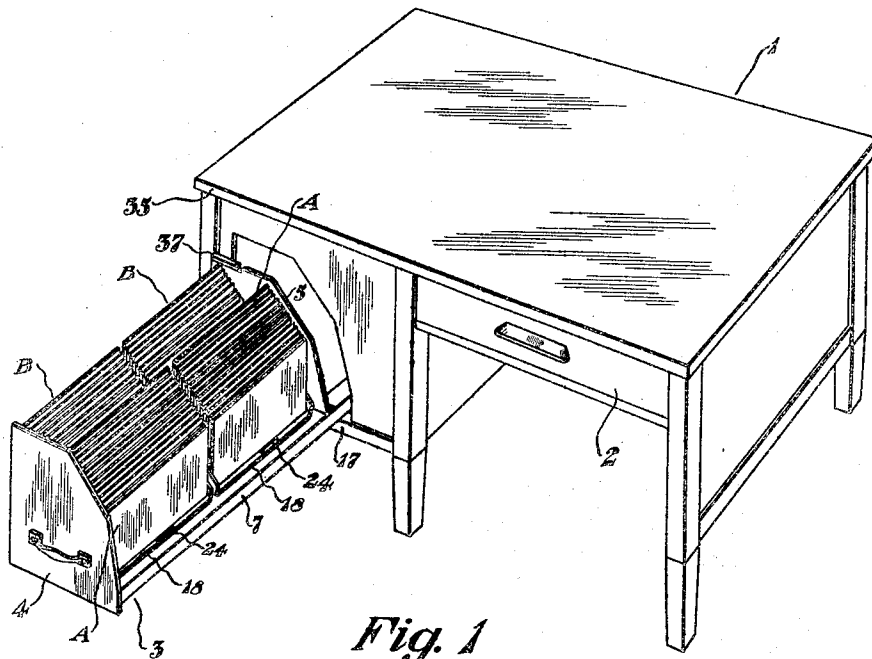
W. E. DUNNING

1,784,584

FILING APPLIANCE

Filed Aug. 20, 1928

3 Sheets-Sheet. 1



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3 Sheets-Sheet 2

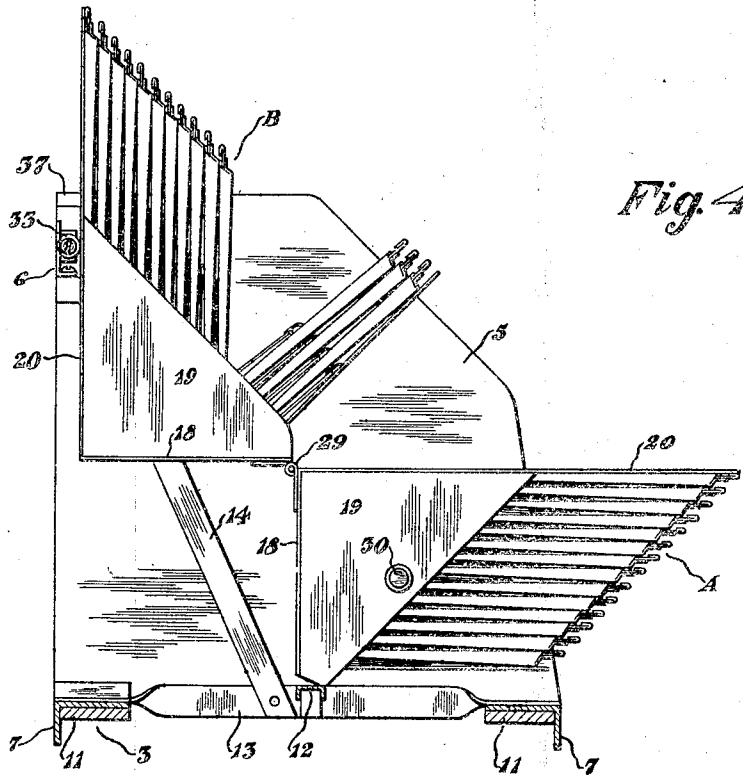


Fig. 4

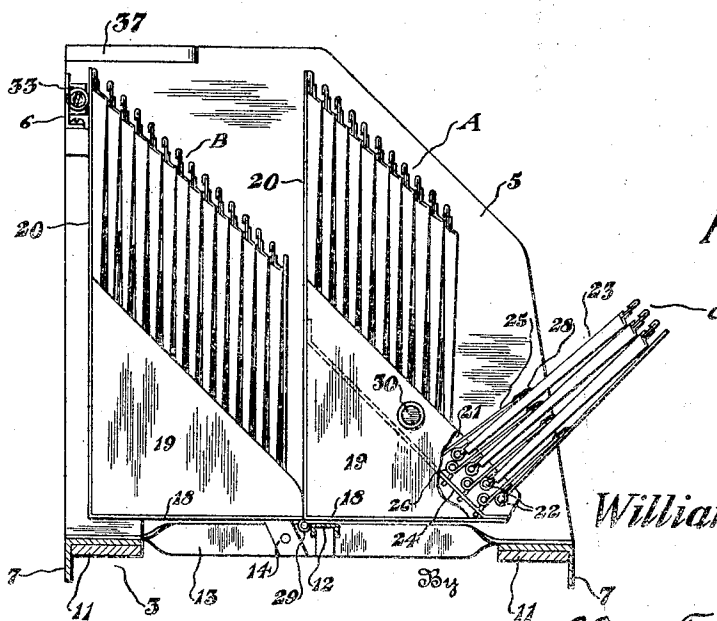


Fig. 3

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3 Sheets-Sheet 3

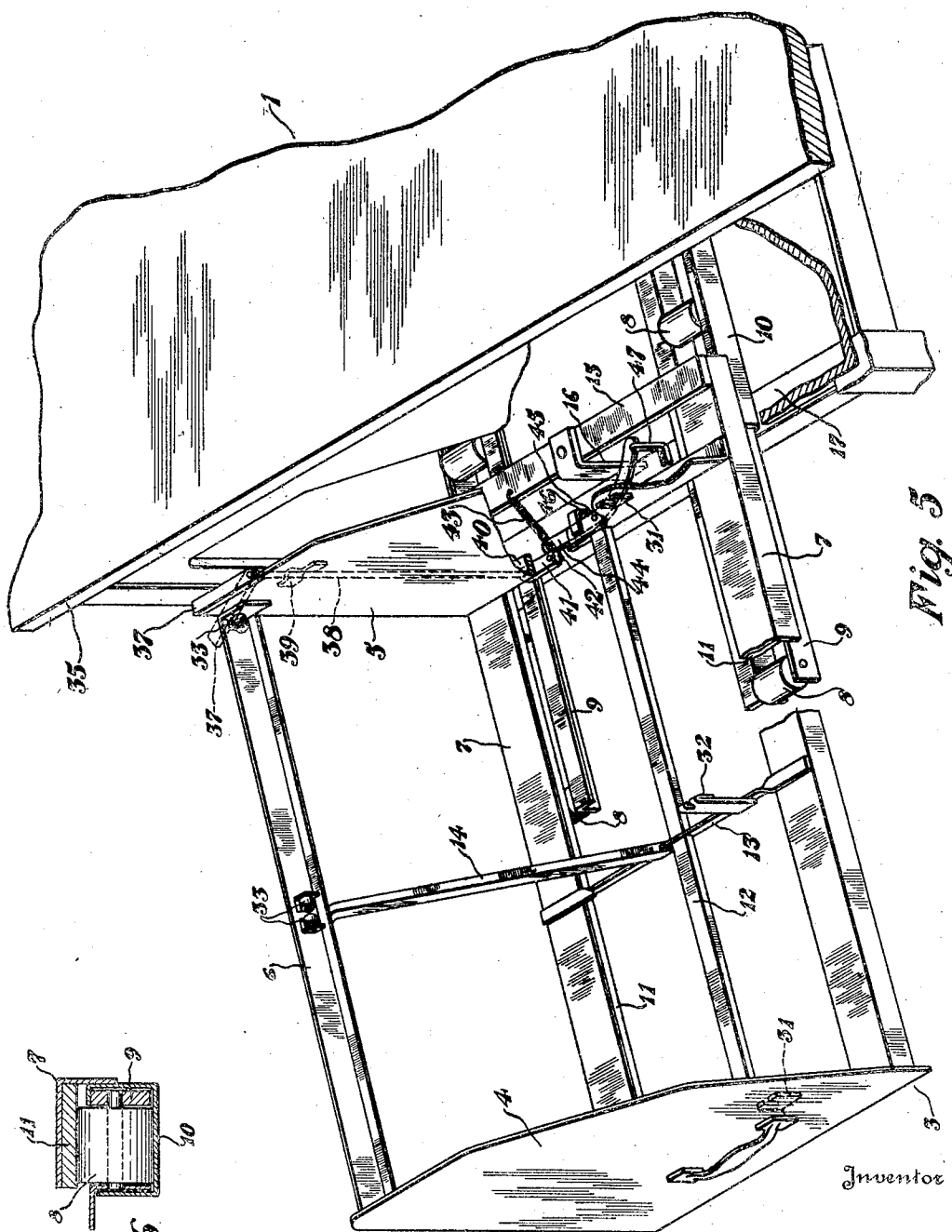


Fig. 5

Fig. 6

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UNITED STATES PATENT OFFICE

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FILING APPLIANCE

Application filed August 20, 1928. Serial No. 300,768.

The invention relates to filing appliances and more particularly to appliances of this nature which are especially adapted for physicians' and surgeons' records.

5 It is customary for physicians and surgeons, in the use of filing appliances of this general nature, to use form cards containing suitable blanks for the history and diagnosis of a case, together with the name and status
10 of the account of the patient.

This latter information is preferably placed at the extreme top of the card so as to be visible when the cards are placed in the appliance in order to facilitate access to any
15 particular record by the physician or surgeon.

Filing appliances of this general character, as now in general use usually comprise a bank of hinged leaves or holders carried upon
20 a supporting table or frame which is mounted upon the top of a desk or cabinet.

This supporting table or frame is normally located in a horizontal position with the hinged holders or leaves located substantially
25 perpendicular thereto. When it is desired to have access to the appliance, the supporting table or frame is tilted from a horizontal to an inclined position at which time the hinged holders will automatically swing from the
30 perpendicular to an upright echelon arrangement.

This form of filing appliance not only obstructs the top of the desk but renders all
35 of the accounts visible; to others in the room than the physician or surgeon, when the supporting table or frame is tilted into inclined position.

The object of the present improvement is to provide a filing appliance for the use of
40 physicians and surgeons which will overcome the disadvantages and objections to the usual form of such filing appliances, as above pointed out; the appliance being so constructed that the hinged holders or leaves are located in upright echelon arrangement at all
45 times, permitting the physician or surgeon to have immediate access to all of the records in the appliance, while at the same time the records are not visible to others than the
50 physician or surgeon.

The above and other objects may be attained by providing a sliding drawer or frame mounted in the desk, beneath the table portion thereof upon the side of the desk ordinarily occupied by the physician or surgeon.
55

Two or more banks of hinged normally upright holders or leaves, located in upright echelon arrangement may be mounted in the sliding drawer or frame, the banks being
60 hingedly connected to each other whereby the entire forward bank may be lowered to substantially horizontal position, permitting the same to be used as a table or desk to support a memorandum pad or the like upon which
65 notes may be written while the record cards in the rear bank are being inspected.

An embodiment of the invention, thus set forth in general terms is illustrated in the accompanying drawings forming part hereof,
70 in which

Figure 1 is a perspective view of a desk provided with the improved filing appliance, showing the sliding drawer or frame in open position, giving access to all of the records
75 therein;

Fig. 2, an enlarged detail perspective view of one of the hinged leaves or holders;

Fig. 3, an enlarged transverse sectional view through the sliding drawer or frame
80 showing the banks of hinged holders or leaves in normal position, several of the holders of the forward bank being tilted downward upon their hinge joints to permit inspection of all of the data upon the card or cards of
85 the next succeeding rearward holder or leaf;

Fig. 4, a similar view showing the forward bank of leaves or holders lowered to substantially horizontal position to provide a table
90 or desk upon which a memorandum pad or the like may be supported while inspecting accounts in the rear bank, several of the forward leaves or holders of the rear bank being tilted forward upon their hinge joints;

Fig. 5, an enlarged perspective view of the sliding drawer or frame with the banks of holders removed; and

Fig. 6, a transverse sectional view through one of the frame members and sliding track
100 members of the sliding drawer.

Similar numerals refer to similar parts throughout the drawings.

A desk of any usual and well known construction is illustrated generally at 1 which may be provided upon the side toward the occupant with one or more drawers of ordinary construction as shown at 2.

The improved filing appliance, to which the invention pertains, is adapted to be carried in a sliding drawer or frame indicated generally at 3 and located upon the same side of the desk as the occupant thereof and preferably arranged to assume a position at the left side of the occupant when the drawer is opened as shown in Fig. 1 of the drawings.

The sliding drawer or frame may comprise the front and rear end walls 4 and 5, respectively, which may be connected at one upper corner as by the angle member 6 and which are mounted upon the spaced angle frame members 7.

The members 7 may be slidably mounted upon the rollers 8 carried by the sliding track members 9 which in turn are slidably mounted within the channel guides 10 fixed within the desk. In order to take the wear the angle members 7 may be provided with the heavy plates 11 upon their under sides for contact with the rollers 8.

The drawer or frame may be further braced by the longitudinal bar 12 connecting the lower portions of the end walls 4 and 5 at points substantially equally spaced between the frame members 7, and a transverse rod 13 may be located across the frame members 7 and central bar 12 midway of the drawer. An angular brace bar 14 may be connected at one end to the angle member 6 and at its other end to the intersection of the bar 12 and rod 13.

To further brace the frame structure, the angle frame members 7 may be joined, at their rear ends, by a cross bar 15 which also serves to limit the opening movement of the drawer, being provided with the angular stop member 16 for engagement with the lower frame member 17 of the desk when the drawer is moved to fully opened position as shown in Figs. 1 and 5.

Each bank of hinged leaves or holders is carried in a frame comprising the bottom plate 18, substantially triangular end plates 19 and back plate 20. An angularly disposed reinforcing bar 21 may be provided upon the inside of each end plate 19, being located along the upper edge thereof as best shown in Fig. 3. Each of these bars 21 is provided upon its inner side with a plurality of spaced pivot pins 22 for pivotally or hingedly mounting the hinged leaves or holders shown generally at 23.

An angularly disposed strip or plate 24 is connected at its lower end to the bottom plate 18 and at its upper end to the back wall 20

and is adapted to have connected thereto the lower ends of the controlling springs 25.

As shown, these springs may be provided with the coil portions 26 located adjacent to the plate or strip 24, the arm portion 25 of the spring extending upward along the rear side of the holder or leaf 23 and having the L-tongue 27 which is slidably engaged with the elongated loop 28 struck from the holder or leaf. The energy of these springs is exerted to rotate the holders or leaves backward or rearward upon the tilting frame so that they normally assume the substantially upright position shown in Figs. 1 and 3.

As shown in the drawings, each filing appliance may comprise two or more tiers of tilting banks of holders, each tier comprising the forward bank indicated generally at A and the rear bank indicated generally at B. The forward and rear banks of each tier may be hingedly connected together by a hinge joint 29 between the bottom portions of the frames which carry the banks.

The forward bank of each tier may be provided with trunnions 30 fixed upon the end plates 19 and adapted to be mounted in the bearings 31 and 32 located upon the end walls and cross-piece 13, respectively, of the sliding drawer or frame.

With this construction the two banks in each tier may be easily and readily removed from the sliding drawer or replaced therein as a unit.

Both banks of each tier are normally located in the position shown in Fig. 3 and access may be had to all of the data upon any record card in the forward bank A by tilting the leaves or holders 23, in front of said card, forward upon their pivots as indicated at C in said figure.

When it is desired to inspect the cards in the rear bank B of each tier, the forward bank may be tilted upon its trunnions into a substantially horizontal position as shown in Fig. 4, raising the rear bank into the position shown in said figure and permitting access thereto, while the back plate 20 of the forward bank, being in horizontal position, will serve as a desk or table for the operator.

It will be seen that the pivoted holders or leaves of each bank are normally in upright position and easily accessible and that the rear bank of each tier remains in upright position whether in the normal position shown in Fig. 3 or the raised position shown in Fig. 4, the back plate 20 thereof engaging the rollers 33 carried in the upper angle member 6 of the sliding drawer.

With this construction it will be seen that the physician or surgeon seated at his desk may open the sliding drawer containing the filing appliance, to the position shown in Fig. 1 and have access to any of his record cards without permitting the same to be seen by a patient seated at the other side of the desk.

The entire filing appliance being located below the table portion 1 of the desk will not permit the records therein to be visible to anyone else in the room unless they would assume a position upon the physician's or surgeon's side of the desk.

It will be seen that if the innermost rear bank B is raised to the position shown in Fig. 4, before the sliding drawer or frame is pulled out to its full extent, the upper edge of this bank B will strike the overhanging ledge 35 of the desk, marring or splintering the same.

In order to prevent this bank from being raised before the sliding drawer or frame is fully opened, a locking device is provided comprising the locking finger 37 fixed upon the rocker shaft 38, which is journaled upon the rear side of the rear wall 5 as by the bearing bracket 39 and lower flange 40.

The rocker arm 41 is fixed upon the lower end of the shaft 38 and provided with a pin 42 to which is connected a coil spring 43, the other end of which is attached to the cross-bar 15.

A curved lever 44 is fulcrumed as at 45 upon the under side of the flange 40, one end thereof contacting with the rocker arm 41 and being normally held against the stop 46 by the pull of the spring 43. It will be seen that when the drawer is not fully opened, the locking finger 37 will be located in the dotted line position shown in Fig. 5, overlying the upper edge of the innermost bank B and preventing the same from being raised.

When the sliding drawer or frame is moved to the fully opened position shown in Fig. 5, the free end of the lever 44 will contact with the finger 47, swinging the other end of the lever away from the stop 46 and swinging the rocker arm 41 against the pull of the spring 43 into the position shown in Fig. 5, and through the rocker shaft 38 swinging the locking finger 37 into alignment with the rear wall 5, permitting the innermost bank B to be raised, at which point it will clear the ledge 35 of the desk.

I claim:

1. The combination with a drawer and the like, of a filing appliance including a frame pivotally mounted in the drawer, a plurality of holders extending longitudinally of the drawer having pivotal mountings in the frame extending longitudinally of the drawer for swinging transversely of the drawer, and means for normally holding the holders in upright echelon arrangement.

2. The combination with a drawer and the like, of a filing appliance including two banks, each bank including a frame, a plurality of holders in each frame extending longitudinally of the drawer and having pivotal mountings in the frame extending longitudinally of the drawer for swinging transversely of the drawer, means for normally holding the holders in each frame in

upright echelon arrangement, the forward bank frame being pivotally mounted in the drawer.

3. The combination with a drawer and the like, of a filing appliance including two banks, each bank including a frame mounted in the drawer, a plurality of holders pivotally mounted in each frame, means for normally holding the holders in each frame in upright echelon arrangement, the forward bank frame being pivotally mounted in the drawer and the rear bank frame being vertically slidably mounted in the drawer.

4. The combination with a drawer and the like of a filing appliance including two banks, each bank including a frame mounted on the drawer, a plurality of holders pivotally mounted in each frame, means for normally holding the holders in each frame in upright echelon arrangement, the frames being hingedly connected together and the forward bank frame being pivotally mounted in the drawer.

5. The combination with a drawer and the like of a filing appliance including two banks, each bank including a frame, a plurality of holders pivotally mounted in each frame, means for normally holding the holders in each frame in upright echelon arrangement, means for swinging the forward bank into substantially horizontal position and means for simultaneously raising the rear bank.

6. The combination with a drawer and the like of a filing appliance including two banks, each bank including a frame, a plurality of holders pivotally mounted in each frame, means for normally holding the holders in each frame in upright echelon arrangement, means for swinging the forward bank into substantially horizontal position and means operated by the swinging of the forward bank for vertically moving the rear bank.

7. The combination with a drawer and the like, of a filing appliance including two banks, each bank including a frame, a plurality of holders pivotally mounted in each frame, means for normally holding the holders in each frame in upright echelon arrangement, the forward bank being pivotally mounted in the drawer and the rear bank being vertically slidably mounted in the drawer, locking means for normally preventing the rear bank from being raised and means rendering the locking means inoperative when the drawer is fully opened.

8. The combination with a drawer and the like of a filing appliance including forward and rear banks, the rear bank being vertically movable, each bank including a frame, a plurality of holders pivotally mounted in each frame, means for normally holding the holders in each frame in upright echelon arrangement, means for swinging the forward

bank into substantially horizontal position, locking means for normally preventing the rear bank from being vertically raised and means rendering the locking means inoperative when the drawer is fully opened.

- 5 9. The combination with a drawer and the like of a filing appliance including two banks, each bank including a frame, a plurality of holders pivotally mounted in each frame, means for normally holding the hold-
10 ers in each frame in upright echelon arrangement, means for swinging the forward bank into substantially horizontal position, means for simultaneously raising the rear bank, locking means for normally preventing the
15 rear bank from being raised and means rendering the locking means inoperative when the drawer is fully opened.

10. The combination with a drawer and the like of a filing appliance including two
20 banks, each bank including a frame, a plurality of holders pivotally mounted in each frame, means for normally holding the holders in each frame in upright echelon arrangement, means for swinging the forward bank
25 into substantially horizontal position, means operated by the swinging of the forward bank for vertically raising the rear bank, locking means for normally preventing the
30 rear bank from being raised and means rendering the locking means inoperative when the drawer is fully opened.

In testimony that I claim the above, I have hereunto subscribed my name.

WILLIAM E. DUNNING.

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