

March 10, 1931.

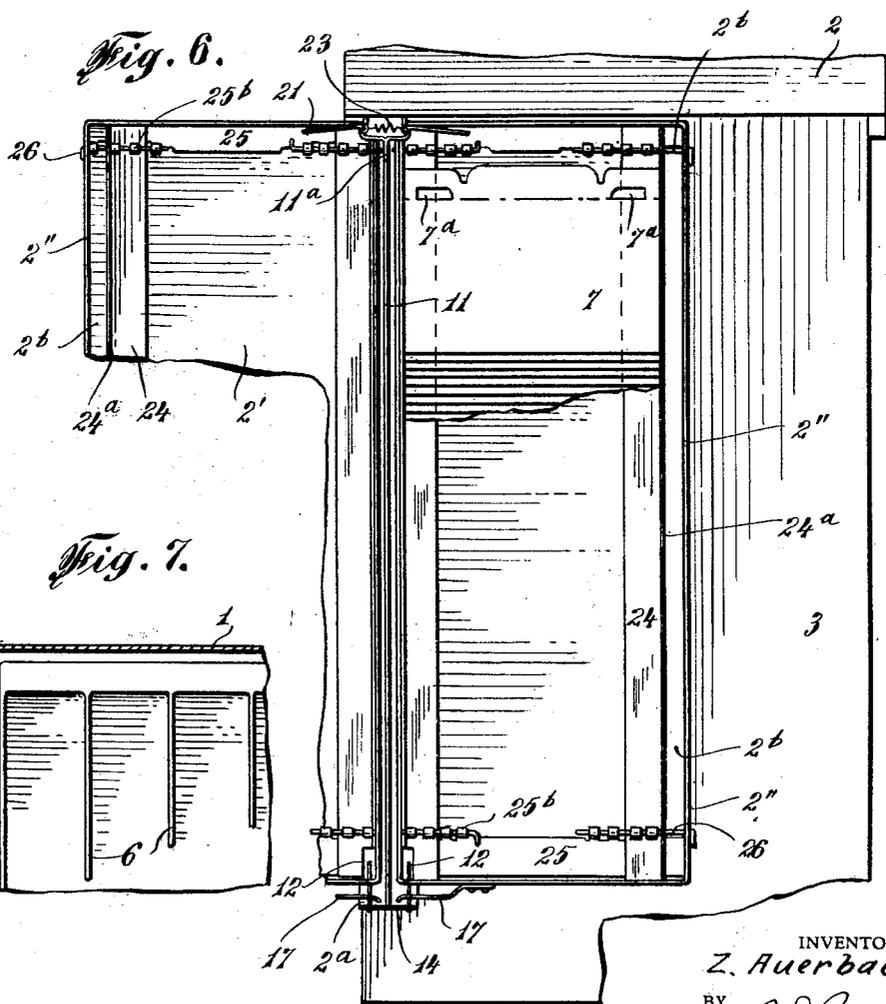
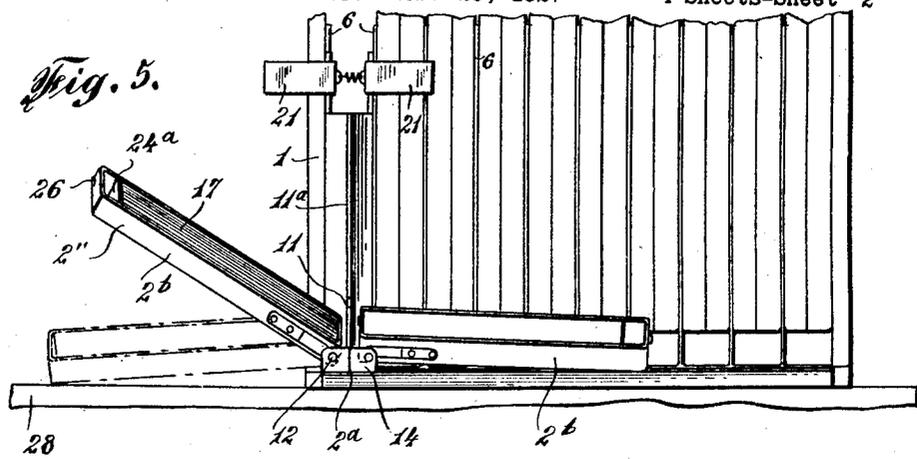
Z. AUERBACH

1,795,699

FILING AND RECORDING SYSTEM

Filed Nov. 23, 1927

4 Sheets-Sheet 2



INVENTOR
Z. Auerbach
BY *J. L. Brown*
ATTORNEY

March 10, 1931.

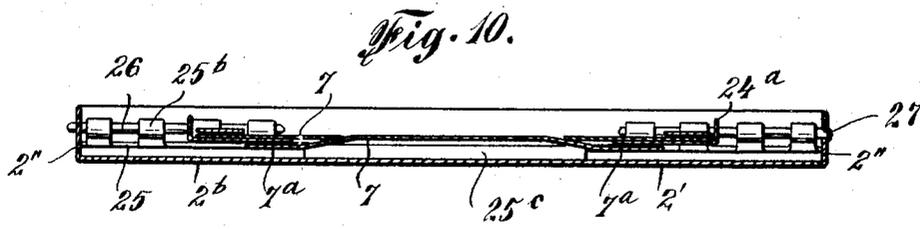
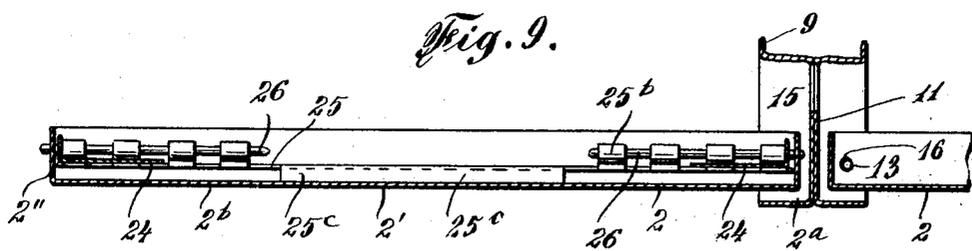
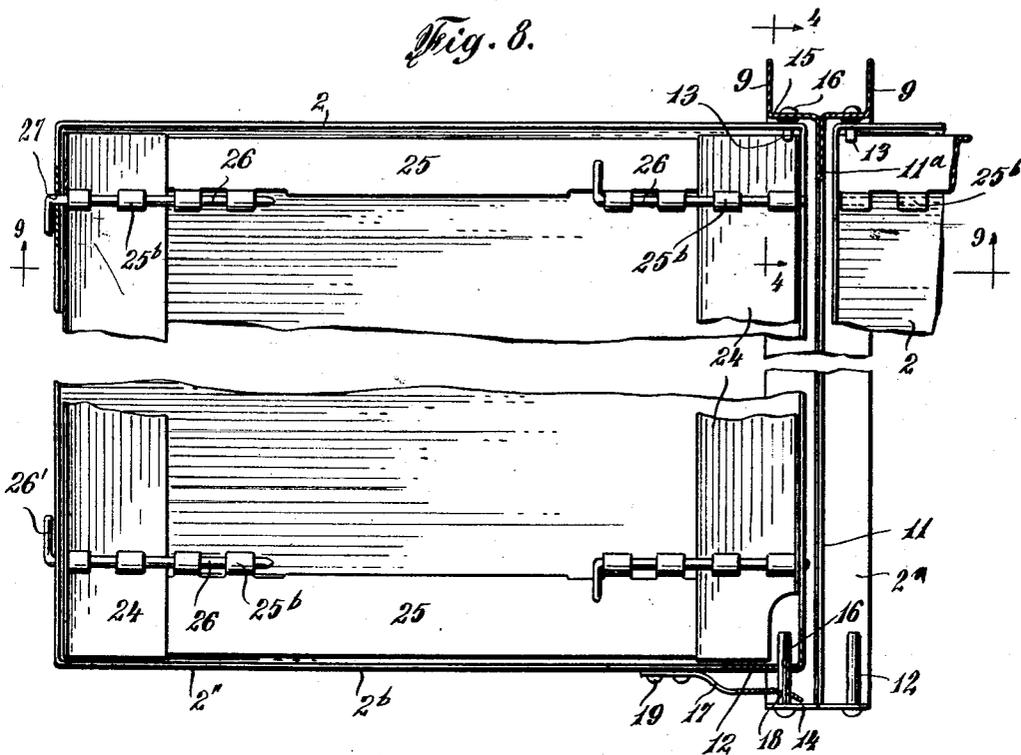
Z. AUERBACH

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FILING AND RECORDING SYSTEM

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4 Sheets-Sheet 3



INVENTOR
Z. Auerbach
BY P. F. Bourne
ATTORNEY

March 10, 1931.

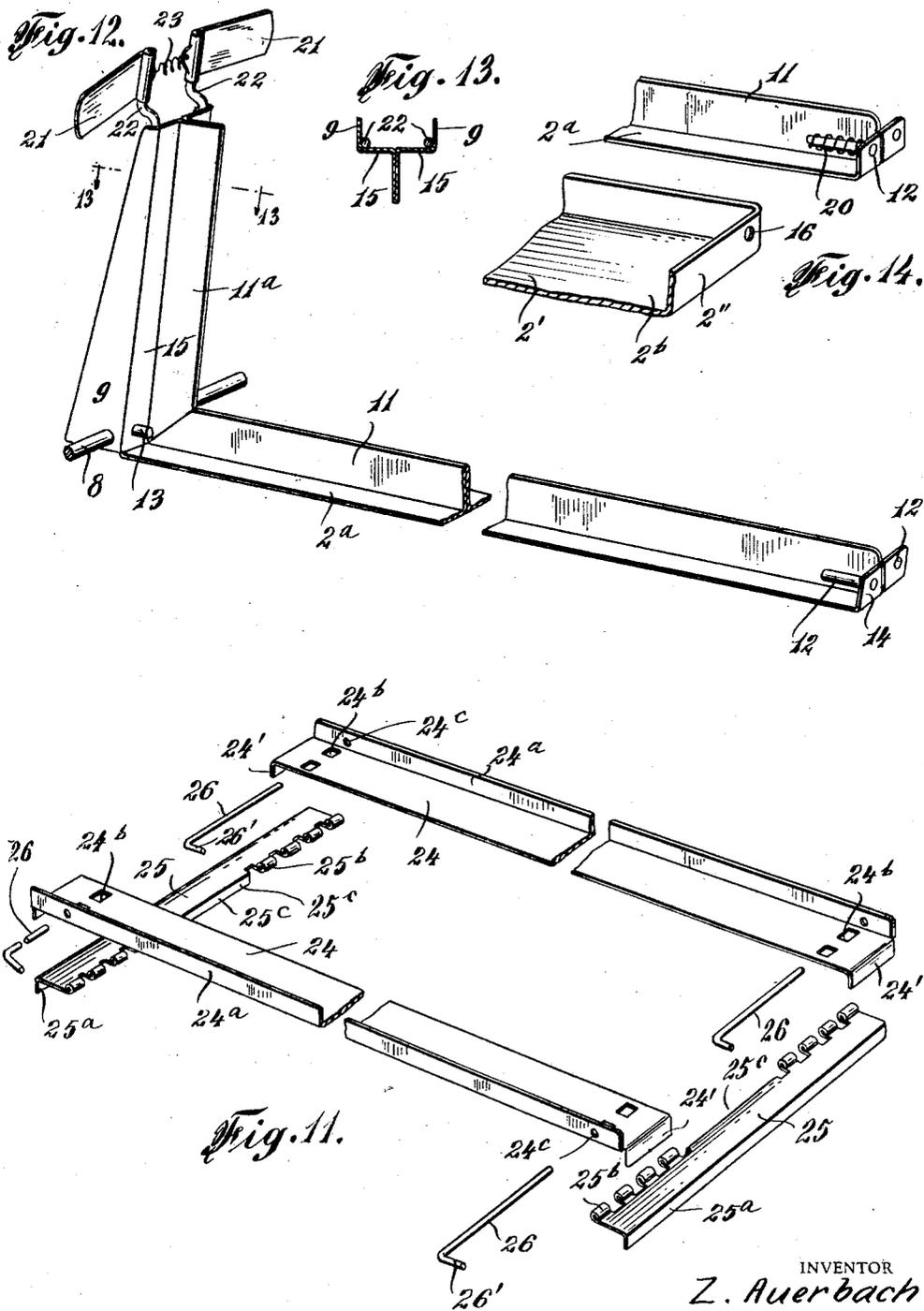
Z. AUERBACH

1,795,699

FILING AND RECORDING SYSTEM

Filed Nov. 23, 1927

4 Sheets-Sheet 4



INVENTOR
Z. Auerbach
BY
A. F. Braum
ATTORNEY

UNITED STATES PATENT OFFICE

ZEMACH AUERBACH, OF NEW YORK, N. Y.

FILING AND RECORDING SYSTEM

Application filed November 23, 1927. Serial No. 235,194.

My invention relates to improvements in the class of devices in which binders and the like that include filing guides or racks for cards and documents are pivotally supported in connection with a cabinet or case in such a way as to be retained on edge within the latter and to be swung outwardly and rested in position for reference.

My invention embodies improvements in the class of filing and recording systems set forth in my application filed December 9, 1926, Serial No. 157,649, wherein binders are pivotally attached at their corners to a cabinet or case so as to be retained in the latter and to be swung out and opened for reference.

One of the objects of my invention is to provide binders or the like that are pivotally supported in connection with a cabinet or case and include covers pivotally connected with backs, which covers are adapted to contain filing cards and the like, the covers being detachably connected with the backs so that the covers with the backs may be removed and replaced; also to provide means to guide the cards in proper position when the covers are being closed.

A further object of my invention is to provide covers or trays with retaining guides for cards, which guides may be adjusted and retained in spaced relation to accommodate cards of varying widths.

My invention comprises novel details of improvement that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part hereof, wherein

Fig. 1 is a partly broken front view of a filing cabinet embodying my invention;

Fig. 2 is a section on line 2, 2, in Fig. 1;

Fig. 3 is a detail view illustrating one of the binders in position in front of the rack;

Fig. 4 is a vertical detail section through one of the binders, on line 4, 4, of Fig. 8;

Fig. 5 is a detail front view illustrating the binder in partially opened position;

Fig. 6 is an enlarged plan view, partly broken, illustrating a binder open for reference;

Fig. 7 is a detail section on line 7, 7, in Fig. 2;

Fig. 8 is an enlarged detail plan view partly in section;

Fig. 9 is a section on the plane of line 9, 9, in Fig. 8;

Fig. 10 is a section of part of Fig. 9, showing the rack guides in different positions in conjunction with cards;

Fig. 11 is an exploded perspective view of the rack parts;

Fig. 12 is an enlarged perspective view of part of the binder;

Fig. 13 is a section on line 13, 13, in Fig. 12, and

Fig. 14 is a detail perspective view of a modification of parts of the binder.

Similar numerals of reference indicate corresponding parts in the several views.

A cabinet or case is indicated at 1, which may be of any suitable construction adapted to contain binders 2. At 3 is a door for the cabinet pivotally supported at a lower front corner of the cabinet at 4, which door may be kept closed by means of a lock at 5, or in any desired way. I preferably provide spaced partitions 6 within the cabinet to receive the binders on edge between the partitions.

The binders illustrated comprise a back 2a and one or more covers 2b pivotally connected therewith, and which serve in the nature of trays or racks. The covers 2b are shown in tray-like form comprising walls 2' having outwardly extending marginal flanges 2'', whereby cards, documents or the like 7 within the covers or trays are protected at their margins.

The lower front corners of the binders, when they are standing on edge in the cabinet 1, are pivotally supported so as to swing into and from the cabinet. For such purpose I have shown a rod 8 extending across the cabinet adjacent to its lower front edge and supported by the side walls of the cabinet, (Fig. 1), the backs 2a of the binders having projections or webs 9 provided with holes 10 through which the rod passes, by which means the binders are pivotally supported by the cabinet, (Figs. 1, 4, 12 and 13). The back 2a is shown provided with a longitudi-

nally disposed laterally extending rib or web 11 along the sides of which the covers 2*b* are pivotally supported by means of pins 12 and 13. The pins 12 are secured to an end piece 5 14 of a binder, and the inner ends of the binder backs and the pins 13 are secured to arms 15 located substantially at right angles to the backs 2*a*, from which arms the projections 9 extend. The end flanges 2'' of the covers have opposing holes 16 to receive the pins 12 and 13, the opposing pins being so spaced that the covers 2*a* may be placed therebetween and be detachably connected therewith, the pins 12 being shown longer than the pins 13, (Fig. 8). When a cover is to be applied to a binder back 2*a* the cover is placed over the binder back, the appropriate hole 16 is pushed over the pin 12 and the cover is moved toward the end piece 14 so that the corresponding pin 13 can receive the opposite hole 16, whereupon the cover is slid along said pins, (Fig. 8), and the cover is pivotally retained. To retain the parts pivotally engaged spring means is preferably used. As shown in Figs. 6 and 8 each cover or tray is provided with a spring finger 17 having a hole 18 to receive the corresponding pin 12, said spring fingers being secured to the flange 2'' of the cover, as by rivets at 19, the free end of the spring bearing against the part 14 to keep the cover in position on the pins and between the parts 14 and 15, (Fig. 8). When the cover is to be removed it may be slid edge-wise toward end piece 14 and the spring 17 will bend to permit the cover to be released from the pin 13, and then removed from pin 12. In the modification shown in Fig. 14 a spiral spring 20 is mounted upon pin 12 and is adapted to oppose the adjacent flange 2'' of the cover when the latter is upon the pin 12, serving in manner similar to spring 17 to retain the cover pivotally upon the pins 12 and 13.

In the example illustrated, the binder backs 2*a* are provided with two pins 12 and two pins 13 adapted to receive corresponding binder covers, and each cover may be removed and replaced separately. A rib or partition 11 is located between two covers and serves, when the covers are folded together, to keep the cards 7 of each adjacent cover separated, and the ribs also serve to engage the adjacent side edges of the cards when a cover is being folded to the closed position to keep the cards snugged in the cover. The outwardly extending arms 15 are provided with ribs or partitions 11*a* which are continuous with the ribs 11, substantially at right angles thereto, the ribs 11*a* serving as abutments to the covers when the latter are folded to closed position, so that the adjacent flange 2'' of the adjacent cover will bear against the rib 11*a* and thereby the covers will maintain the proper relative positions without interfering one with another.

In order to guide the folded covers into position in their spaces between the partitions 6 of the cabinet I provide pivotal webs or wings 21 which are shown supported on pins 22 secured to the arms 15 and projecting outwardly therefrom. The webs or wings 21 are united by a spiral spring 23 which tends to cause said webs to spread apart when the binder is withdrawn from its position in the cabinet and swung down for reference, (Fig. 6), at which time the arms 15 and the webs 21 will extend forwardly from the cabinet. When a pair of covers are folded together they will be in front of the webs 21 so that when the binder is tilted back into the cabinet the webs will fold around the adjacent sides of the covers and guide the latter into position between the partitions 6 and adjacent binders.

The cards 7 illustrated are of the variety adapted to be detachably retained in the covers or trays, being shown provided with tongues or projections 7*a* that are adapted to extend under spaced guides 24 carried by the covers. The guides 24 are shown in the form of strips which may be of suitable metal having their end portions 24' bent laterally to bear against the wall 2' of the cover to maintain the guides spaced therefrom, (Figs. 4, 9 and 11). The guides 24 are shown provided with flanges 24*a* on their outer edges to oppose the cards 7 and keep them positioned in the covers. Transverse members 25 extends across and are detachably connected with the guides 24 to retain the latter in spaced relation within the covers or trays. Members 25 are shown provided with edge flanges 25*a* and 25*c* adapted to rest upon the wall 2' of the cover or tray, (Fig. 4). The guides 24 are shown provided with holes 24*b* adapted to receive eyes 25*b* that project from members 25 near their ends and extend through the guides 24 in position to receive retaining or locking pins 26 that overlie the guides and retain the parts 24 and 25 together. The pins are also adapted to pass through holes 24*c* in the flanges 24*a*, (Fig. 11), and through holes 27 in flanges 2'' of the covers or trays, whereby to retain the rack members therein. Bent ends 26' of the pins 26 permit convenient manipulation of the latter. Each member 25 is shown provided with spaced eyes 25*b* near its ends, whereby the guides 24 may be adjusted toward and from each other, in spaced relation, and corresponding eyes 25*b* will be passed through holes 24*b* to receive the pins 26 to accommodate cards of different widths. Fig. 9 illustrates the guides 24 spaced for full width cards adapted to fit in the covers, and Fig. 10 illustrates said guides spaced nearer together to accommodate narrower cards. The rack members 24, 25 may be removed from a cover or tray to retain a set of cards, or the entire cover or tray may be removed from the corresponding back

2a for the same purpose, to be replaced by another cover.

In accordance with my invention binders may be supplied with detachable cards fitted to the guides 24, and when the binders are folded and stored within the cabinet a large quantity of cards may be retained in a relatively small compass in convenient position for reference, etc. When a binder is to be used it is swung forwardly and may be rested upon the opened door 3, the cabinet being rested upon a table top or the like 28, (Fig. 5), as well as the door, so that the covers may be spread out before the operator for access to the cards. At such time portions of the rearwardly extending projections 9 are within the cabinet between the partitions 6 and resist lateral movement of the arm 15. If the partitions are omitted the projections 9 will operate against the sides of adjacent binder covers. When the binder is to be replaced in the cabinet the covers are folded together and swung into the cabinet, the projections 9 guiding the arm 15 between the partitions 6 or between adjacent covers and the webs or wings 21 serving to guide the covers into place. Any cover may be readily removed from its back 2a and another cover replaced so that the covers containing the used cards may be stored intact, since a new cover may be replaced on the back for a further supply of cards.

The term "binder" I use in a broad sense as including one or more covers, united along the back 2a, and the term "card" is used to include filing and index cards, loose leaves and the like. Where it is desired one cover may be detachably connected to the corresponding back 2a and the rib 11 will serve to keep the cards in place when the cover is folded.

Changes may be made in the details of construction and the arrangement of parts set forth, within the scope of the appended claims, without departing from the spirit of my invention.

Having now described my invention what I claim is:—

1. A device of the character described comprising a back provided with an arm extending at an angle thereto, a cover pivotally carried by the back, a cabinet to receive the cover and the arm, and means pivotally connecting the back with the cabinet, the arm being provided with pivotal webs and spring means to spread the webs when the cover and the webs are without the cabinet, the webs being adapted to fold outside of the cover to guide the latter into the cabinet.

2. A device of the character described comprising a back provided with a rib and having an arm projecting at an angle to the back, said arm having a rib, covers pivotally carried by the back on opposite sides of the ribs, and means to retain cards in the covers, the

first named rib being located in position to engage cards when the covers are folded, and the second named rib being in position to engage the covers when they are folded to keep them in spaced relation, said arm being provided with pivotal webs to fold outside of the covers to guide the latter to position between adjacent covers.

3. A device of the character described comprising a cabinet, a back pivotally attached to the cabinet to fold toward and from the latter, said back having a rib and having an arm projecting at an angle to the back adapted to fold within the cabinet, said arm having a rib, covers pivotally carried by the back on opposite sides of the ribs, means to retain cards in the covers, the first named rib being located in position to engage cards when the covers are folded and the second named rib being in position to engage the covers when they are folded to keep them in spaced relation, said arm being provided with pivotal webs, and spring means connected with said webs to cause them to spread when the covers and the arm are withdrawn from the cabinet, said webs being arranged to fold outside of the covers to guide the latter to position between adjacent covers.

4. A device of the character described comprising a cabinet, backs provided with arms having rearwardly extending spaced projections, a rod carried by the cabinet, said projections being journaled on the rod, covers pivotally attached to the backs, and means to retain cards on the covers, the said projections being located between adjacent covers and serving to retain the arms from lateral displacement.

ZEMACH AUERBACH.

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