Nov. 10, 1925. 1,560,856

J. H. RAND, JR

PORTABLE INDEX BOOK OR DEVICE

Filed Oct. 8, 1923 2 Sheets-Sheet 1

Fig. 1.

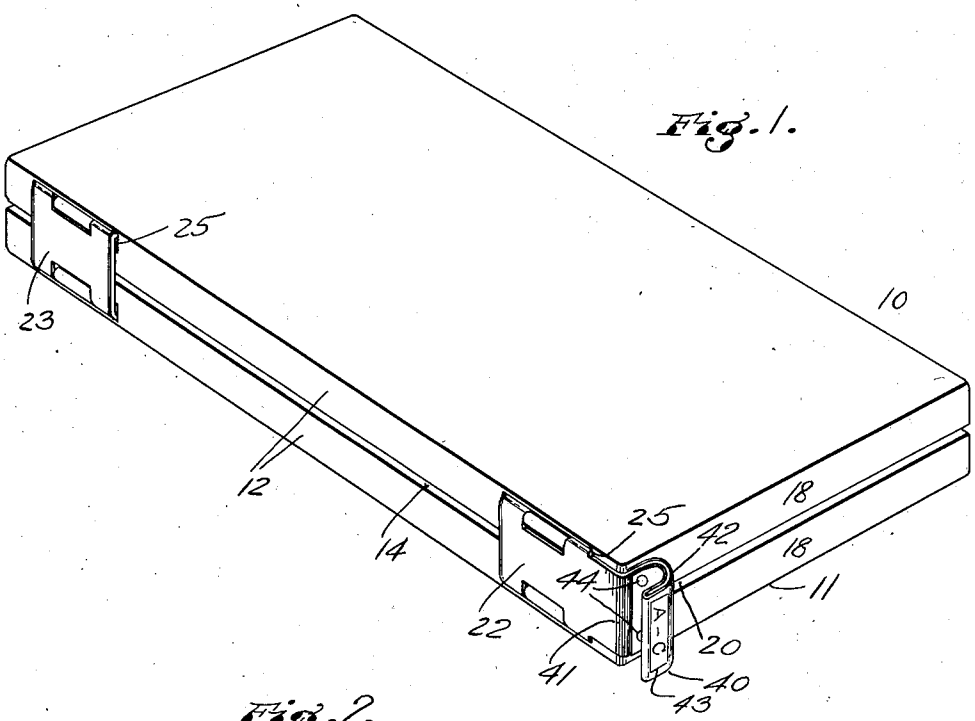


Fig. 2.

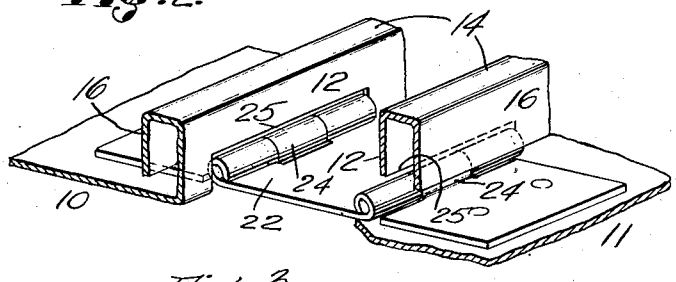
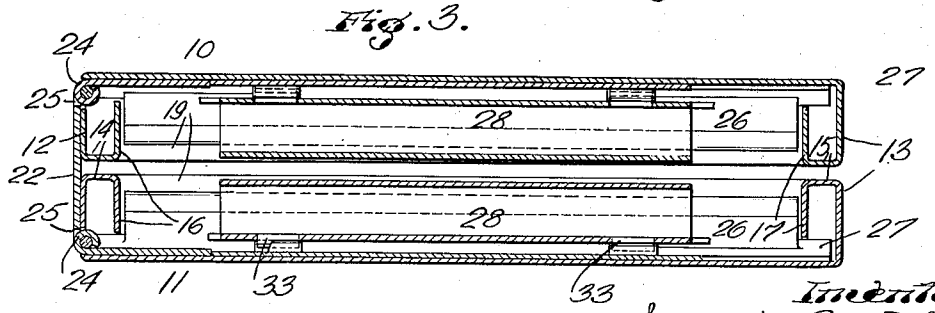


Fig. 3.



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Fig. 4.

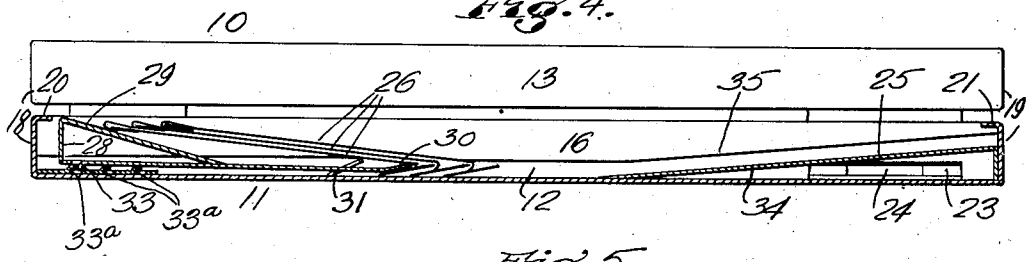


Fig. 5.

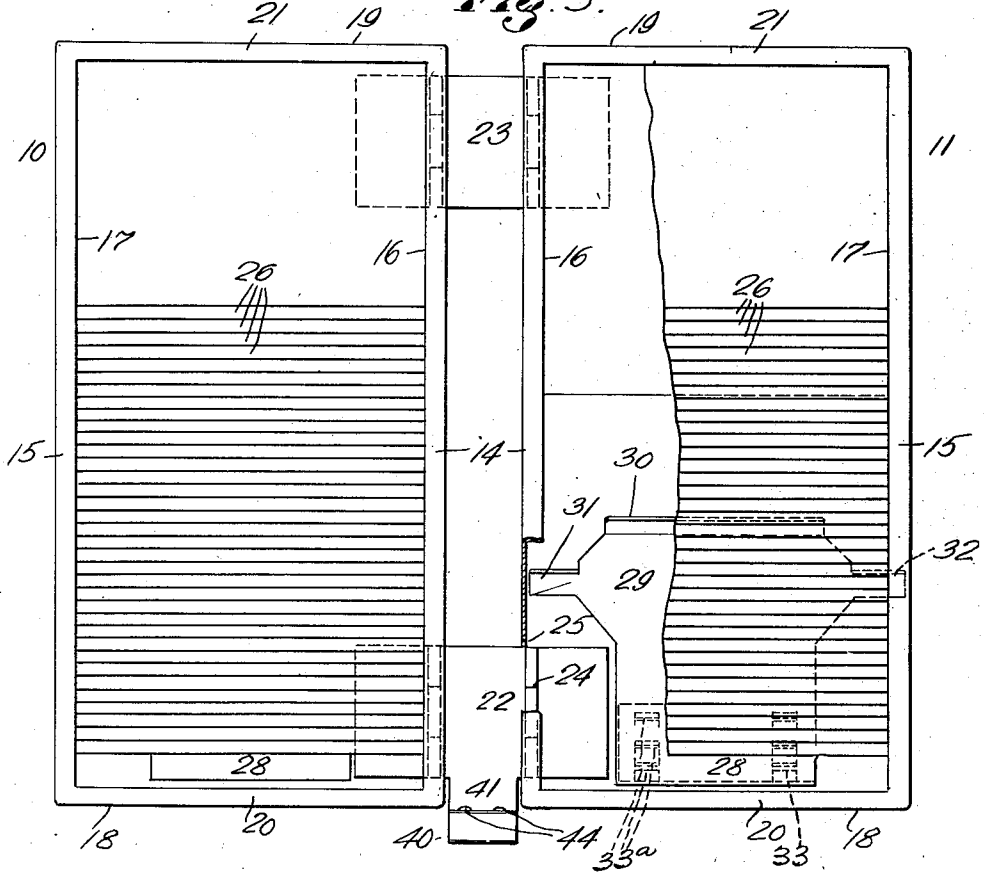
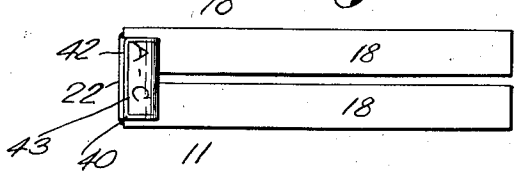


Fig. 6.



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Patented Nov. 10, 1925. 1,560,856

UNITED STATES PATENT OFFICE.

JAMES H. RAND, JR., OF TONAWANDA, NEW YORK.

PORTABLE INDEX BOOK OR DEVICE.

Application filed October 8, 1923. Serial No. 667,132.

To all whom it may concern:

Be it known that I, JAMES H. RAND, Jr., a citizen of the United States, residing at Tonawanda, in the county of Erie and State of New York, have invented a new and useful Improvement in Portable Index Books or Devices, of which the following is a specification.

This invention relates to portable card index devices or books which are adapted to be used in warehouses, shipping rooms and the like, or on vehicles used in the delivery of goods or wares.

The objects of the invention are to provide a readily portable index device which may be subjected to rough usage without damage to the contents thereof; also to provide a small portable index device of the type having a plurality of cards or card-holders in predetermined overlapping arrangement, which is readily adapted to be carried about from place to place outside of offices and constructed so as to protect the records therein from dust, dirt or the elements; and also to provide improvements in card index or record devices in the other respects hereinafter described and claimed.

In the accompanying drawings:

Fig. 1 is a perspective view of a device embodying the invention, showing the device in closed position.

Fig. 2 is a sectional perspective view of a portion thereof, the leaves being open.

Fig. 3 is a section of the device with the leaves in closed position.

Fig. 4 is a side elevation thereof, partly in section.

Fig. 5 is a plan view thereof with the leaves in open positions, a part thereof being broken away.

Fig. 6 is an end elevation thereof with the leaves in closed position.

The device of the present invention has a plurality of relatively strong, rigid leaves adapted to receive index or record cards or devices and connected so as to form a book having rigid sides and edges so that the cards or index devices are protected from dirt, dust or wear. In the drawings there is shown a book comprising two leaf portions 10 and 11, these leaf portions are preferably constructed of suitable metal or other strong, relatively rigid material and each leaf is preferably provided with integral, rigid side flanges 12 and 13. The material of the side flanges 12 and 13 is preferably bent over inwardly, forming rails or inner face portions 14 and 15, and thence bent toward the bodies of the leaves as at 16 and 17, thus strengthening the side structure and providing, in effect, side channels. In order to permit a follower to be inserted in and removed from the leaf, the inner flanges 16 and 17 of the leaves are preferably formed with lower edges that incline upwardly from approximately the center of the leaf towards both ends.

18 and 19 designate the end portions of each leaf, these portions preferably being integral with the bodies of the leaves and having inwardly extending flanges 20 and 21. The sides and ends and the side and end flanges may be secured together by any suitable means, as, for example, by welding so as to produce in each leaf a strong, rigid, unitary structure.

The leaves are connected in book form by suitable means, as for example, the double hinges 22 and 23, shown. The end portions of these hinges are secured to the inner sides of the respective leaves by welding them thereto, or by any other suitable means and the knuckles of the hinges are received in and hidden from view in the side channels of the leaves. For example, in Figs. 2 and 5, the hinge knuckle 24 in the leaf at the right hand sides of those figures, enters the channel through a recess 25 provided in the side of the leaf and being substantially flush with the outer side of the leaf presents no substantial protuberance or obstruction at the outside of the leaf.

The numerals 26 designate a plurality of the usual index cards or holders arranged in overlapping order and which may have side tongues 27 adapted to extend beneath the inner side flanges of the leaves to maintain the cards in place and guide them in their sliding movements.

The cards or card holders are held against movement in one direction lengthwise of the leaves by the end portions 19 of the leaves having the inwardly extending or overhanging flanges 21 which prevent the rearmost cards or holders from being lifted out of the leaves when they are forced against those ends of the leaves. In order to limit movement of the cards or holders in the other direction lengthwise of the leaves, any suitable type of follower or stop may be provided. In the device illustrated, there is shown a follower 28 having an inclined

card-supporting portion 29 which maintains the cards at one end of the leaf in substantially horizontal alinement, a tongue 30 or other part for engaging a card or holder, guide tongues 31 and 32 for engagement beneath the inner side flanges of the leaf, and one or more lugs or projections 33 for engaging one or more of a plurality of projections 33[a] on the inner surface of the leaf, whereby pressure may be placed on the cards or card-holders by the follower.

By means of the overlapping arrangement of the cards or card-holders, the thickness of the set of cards or holders is less at the ends of the leaf than centrally of the length of the leaf. The follower with its inclined part, as hereinbefore described, maintains the cards or holders at one end of the leaf in substantially horizontal alinement with adjacent cards or holders and for achieving a like purpose at the other end of the leaf, the leaf is preferably provided with an inclined apron 34, and in order to permit the tongues of the cards or holders which are elevated on this apron to enter the side marginal channels of the leaf, the edges of the inner side flanges of the leaf are inclined as at 35 substantially parallel with the face of apron 34. The rails or inner face portions 14 and 15 of the leaves protect the edges of the cards or holders when the book is open and are substantially superimposed on the rails of opposite leaves when the book is closed, providing a strong, rigid unit which may be thrown about or roughly handled without damage to the contents.

It often happens that a number of these devices or books are used to contain similar subjects matter, or are otherwise associated together. In such cases, the books are preferably grouped or stacked side by side, as by standing them on their backs or hinged parts. It is desirable, therefore, to provide means for enabling the contents of the books to be readily indicated or identified and to enable one or more of the books to be pulled out or separated from a group, as desired. The means shown in the drawings for this purpose preferably comprises a hook-shaped handle or pull 40 formed on an endwise extension 41 of the intermediate portion of one of the hinges, for instance, the hinge 22. The extension 41 is directed towards the adjacent corner of the book or device, is there bent along the end faces of the two leaves, and is then curved outwardly to form the handle 40, as shown in Figs. 1, 5 and 6. The means for indicating the contents of the book is preferably in the form of a data-holding pocket arranged on the handle 40. Such a pocket is shown at 42, and comprises a loop or strip of celluloid or other flexible material, bent around and embracing the handle, so that a data or index slip 43 may be inserted beneath one of its folds so as to be viewed therethrough. The pocket or strip 42 is secured to the handle 40 in any suitable way, as by means of rivets or the like 44. Any other suitable means may be employed for maintaining a data or index slip or other indicating means on the handle 40.

I claim as my invention:

1. In a portable card index book, a plurality of leaves of substantially rigid material adapted to support a series of record-receiving devices, said leaves each comprising a record-supporting portion and side and end flanges, means connecting said leaves whereby they may be superimposed one on the other, face to face, to close said book, and moved to open positions in which their faces are spaced apart and exposed, one of said flanges providing a stop for limiting movement of said series of record devices lengthwise of said leaf in one direction, and a movable member engaging a portion of said series of record devices and having a part engaging the record-supporting portion of said leaf for releasably limiting movement of said series lengthwise of said leaf in the opposite direction.

2. In a portable card index book, a pair of leaves of substantially rigid material adapted to support a series of record-receiving devices, said leaves having a pair of inwardly and downwardly extending side flanges providing side marginal channels, double hinges connecting said leaves so that said leaves may be superimposed one on the other face to face to close said book and moved to open positions in which their faces are spaced apart and exposed, the knuckles of said hinges being positioned beneath said side marginal channels, whereby they are hidden from view by said side flanges.

3. In a card index book, a plurality of one-piece metal leaves each having a body portion and integral sides provided with inwardly extending flanges adapted to contact with the flanges of the others of said leaves when the book is closed, the inner sides of said leaves being adapted to receive cards or index devices and providing protective covers for said cards, means connecting said leaves so that they may be moved relatively to one another to and from open and closed positions, and a handle on said leaf-connecting means adapted to be grasped to permit the index book to be moved on a supporting surface.

4. In a card index book, a plurality of one-piece metal leaves each having a body portion and integral sides provided with inwardly extending flanges adapted to contact with the flanges of the others of said leaves when the book is closed, the inner sides of said body and side portions being adapted to receive cards or index devices and providing protective covers for said

cards, means connecting said leaves so that they may be moved relatively to one another to and from open and closed positions, a handle on said leaf-connecting means adapted to be grasped to permit the index book to be moved on a supporting surface, and means on said handle adapted to receive and display a data slip or other indicating device.

5. In a portable card index book, the combination of a plurality of leaves of substantially rigid material each supporting a plurality of record-receiving devices in overlapping order with an edge of one device extending beyond the edge of the adjacent device, means connecting said leaves whereby they may be superimposed one on the other to close said book and moved to open positions in which their faces are spaced apart and the record devices therein exposed to view, a handle on said leaf-connecting means extending adjacent the end of the book and adapted to be grasped to permit said index book to be moved on a supporting surface and a pocket on said handle adapted to display a data slip or other indicating device.

6. In a portable card index book, the combination of a plurality of leaves of substantially rigid material each supporting a plurality of record-receiving devices in overlapping order with an edge of one device extending beyond the edge of the adjacent device, means connecting said leaves whereby they may be superimposed one on the other to close said book and moved to open positions in which their faces are spaced apart and the record devices therein exposed to view, a handle on said leaf-connecting means extending adjacent the end of the book and adapted to be grasped to permit said index book to be moved on a supporting surface, and a pocket on said handle formed of a strip of flexible material looped around and secured to said handle and providing a recess adapted to receive and display a data slip or other indicating device.

7. In a portable card index book, a pair of leaves of substantially rigid material each adapted to support a series of record-receiving devices, said leaves having a pair of inwardly and downwardly extending side flanges providing side marginal channels, double hinges connecting said leaves so that said leaves may be superimposed one on the other face to face to close said book and moved to open positions in which their faces are spaced apart and exposed, a relatively fixed part on each of said leaves providing stops for limiting movement of said series of record devices on said leaves in one direction, and a movable member having guide parts extending beneath said downwardly extending side flanges and interengaging parts on said leaves and said movable member outside of or removed from said flanges and providing a movable stop for limiting movement of said record devices on said leaves in the opposite direction.

8. In a portable card index book, the combination of a plurality of leaves of substantially rigid material each supporting a plurality of record-receiving devices in overlapping order with an edge of one device extending beyond the edge of the adjacent device, means connecting said leaves whereby they may be superimposed one on the other to close said book and moved to open positions in which their faces are spaced apart and the record devices therein exposed to view, an inclined bottom plate on one end of each leaf for maintaining the record devices at such ends of the leaves with their faces in horizontal alinement, and a movable stop member for the other end of each leaf, said stop members having portions for engaging one of said record devices and inclined faces for supporting the record-receiving devices at such ends of the leaves with their faces in horizontal alinement with the remainder of the devices on said leaf.

9. In a card index book, a plurality of one-piece metal leaves, each having a card-supporting portion and integral side and end portions, said side portions providing inwardly and downwardly extending flanges extending toward said card-supporting portion the lower edges of said downwardly extending flanges inclining upwardly from the approximate centers of said sides to the ends thereof and said end portions having inwardly extending flanges, and connections between said leaves whereby they may be moved to and from open and closed positions, in said closed position the cards on said leaves being protected between said leaves.

JAMES H. RAND, JR.