

Aug. 15, 1944.

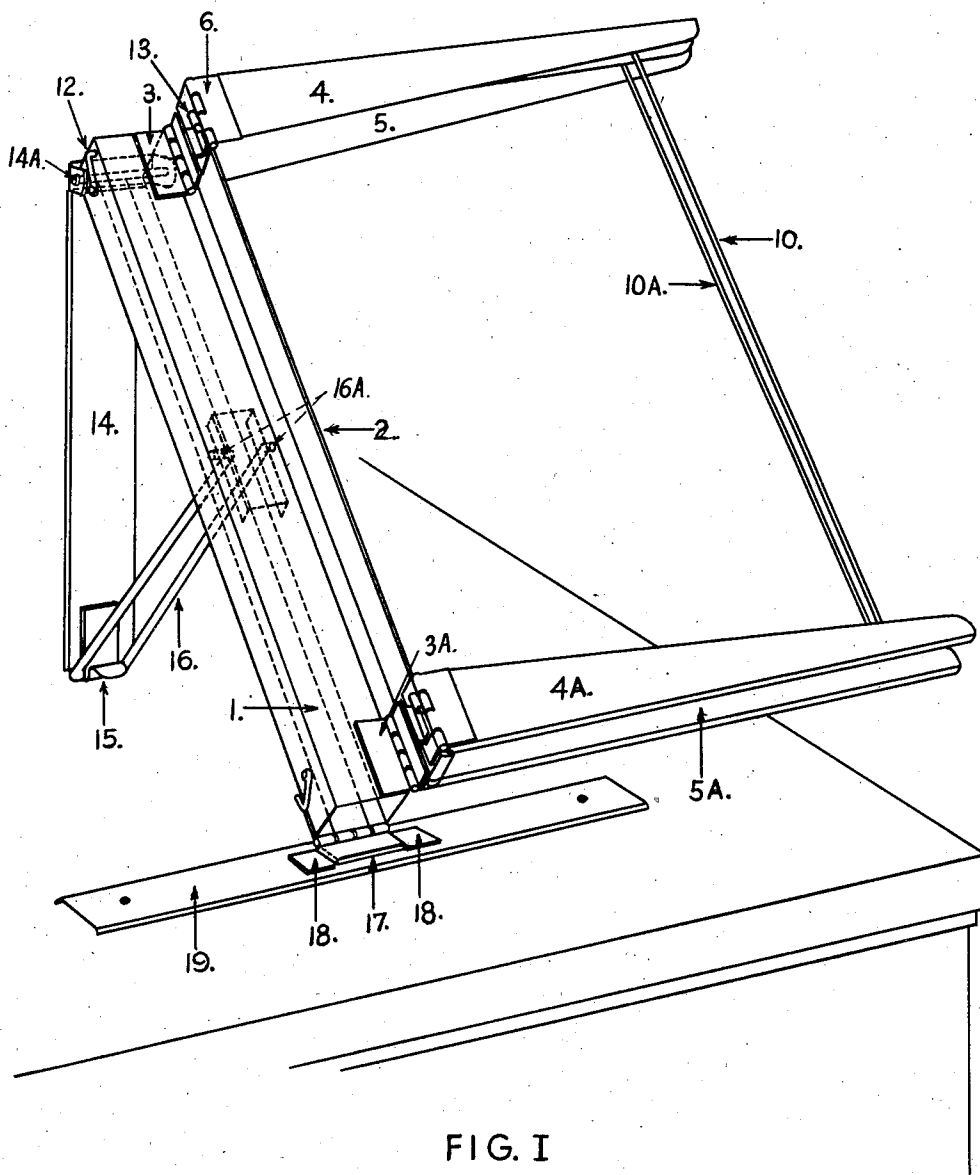
D. P. JOYCE

2,355,653

SUPPORTING RACK

Filed June 12, 1942

3 Sheets-Sheet 1



INVENTOR
DWIGHT P. JOYCE
BY

Charles E. Carney
ATTORNEY

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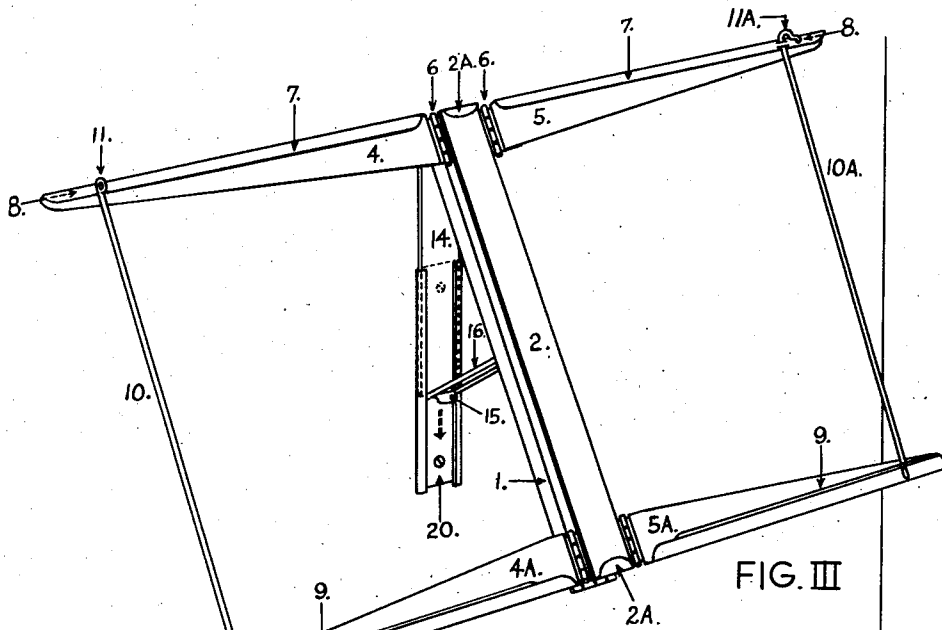


FIG. III

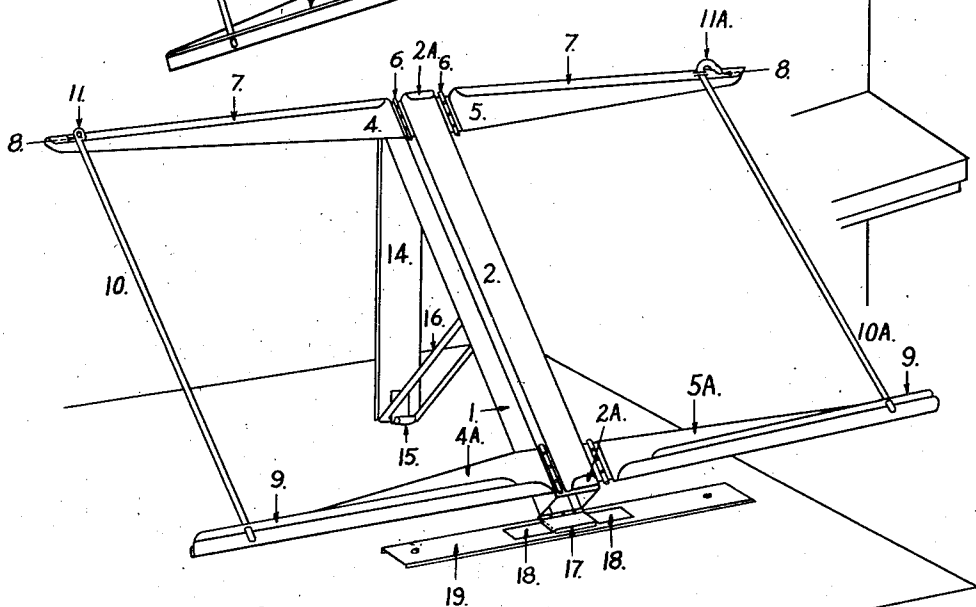


FIG. II

INVENTOR
DWIGHT P. JOYCE
BY

Charles E. Carney
ATTORNEY

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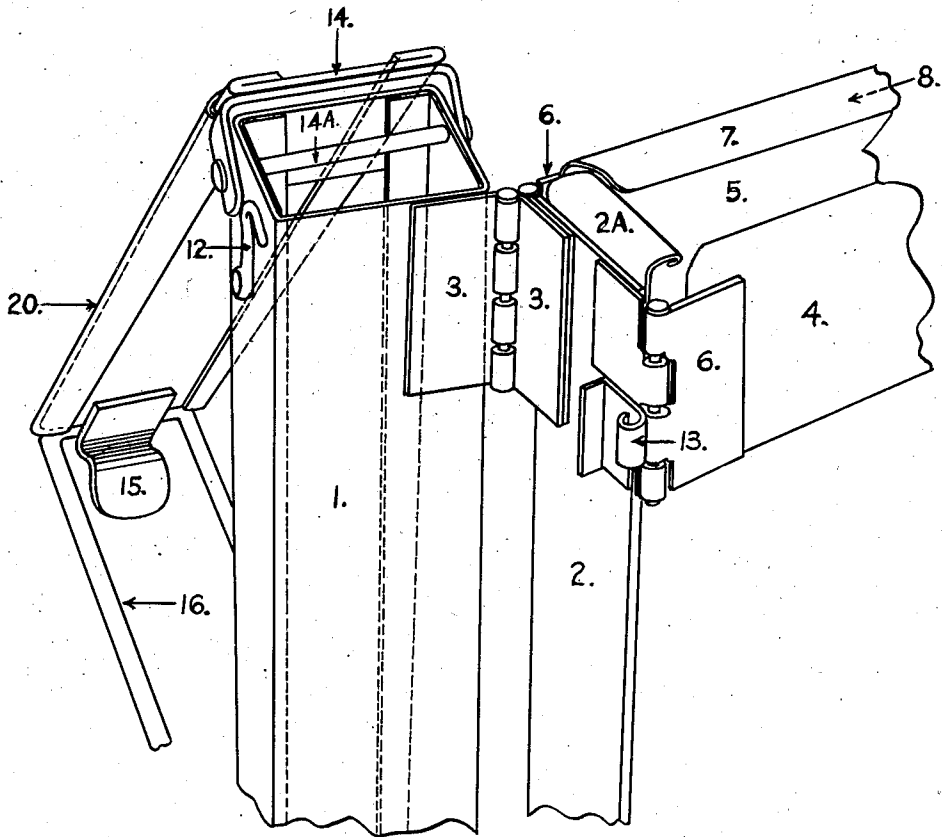


FIG. IV.

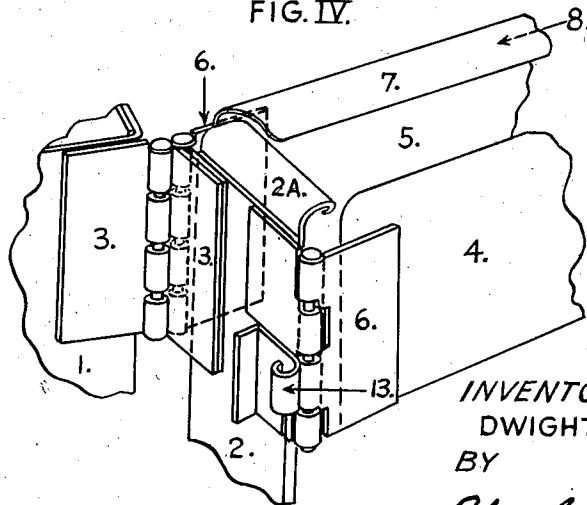


FIG. V.

INVENTOR
DWIGHT P. JOYCE
BY

Charles E. Carney
ATTORNEY

UNITED STATES PATENT OFFICE

2,355,653

SUPPORTING RACK

Dwight P. Joyce, Shaker Heights, Ohio, assignor
to The Glidden Company, Cleveland, Ohio, a
corporation of Ohio

Application June 12, 1942, Serial No. 446,689

12 Claims. (Cl. 45—80)

The present invention relates to a display device, and particularly relates to a book holder.

The present invention is particularly applicable for holding large, heavy books containing advertising matter and the like which are used and examined by the public, although it is not, of course, limited to such uses.

The object of the invention is to provide a convenient holder for such books, which will make them readily usable.

Another object is to provide a book holder which will hold the book in an easily read and convenient position when in use, but which can be easily positioned in an out-of-the-way place when not in use.

Other objects will be apparent from the description.

The invention will be best understood by reference to the accompanying drawings wherein like numerals refer to like parts.

Fig. I is a perspective view showing the holder mounted on a table or horizontal surface and the book holding arms in closed position.

Fig. II is a perspective view similar to Fig. I but showing the book holding arms in open position.

Fig. III is a perspective view showing the holder mounted on a wall or vertical surface.

Fig. IV is an enlarged view showing assembly detail.

Figure V is an enlarged view showing in greater detail a portion of Fig. IV.

The preferred form of construction, as illustrated in the drawings, comprises a central supporting member 1, which in the form shown is a rectangular tube. A book spine supporting member 2 is hingedly mounted on the supporting member 1 by means of hinges 3 and 3A. The top and bottom of the supporting member 2 are provided with turned over flanges 2A which are adapted to engage the top and bottom edges of the spine of a book. Two pairs of book holding arms 4, 4A and 5, 5A are hingedly mounted on support 2 by means of hinges 6. Each book holding arm is provided with upturned flanges 7, to provide grooves 8 in which the top and bottom edges of the book covers are positioned. The flanges on the lower book holding arms 4A and 5A are also preferably provided with upwardly projecting members 9 which act as supports for the leaves of the book, this feature being especially desirable when a loose-leaf bound book is being used. Near the outer extremities of the arms 4 and 4A there is provided a locking rod 10 which is permanently and securely fastened to the arms 4 and 4A, such as by welding or other suitable means. The top of the rod 10 is provided with an eye 11. Arms 5 and 5A are provided with a removable locking rod 10A, the top end of which is provided with a hooked portion

11A adapted to be inserted into the eye 11 when the book is closed, and to be turned in said eye securely locking the two halves together.

Hooks 12 are provided at the top and bottom of the central supporting member 1, and are adapted to engage the eye members 13 mounted on the spine supporting member 2, to provide a means for locking the spine supporting member 2 to the central supporting member 1.

Pivotaly attached to the underside of the top of the central supporting member 1 by means of hinge pin 14A is a supporting leg member 14, having brace retaining catch member 15 at the bottom for engaging the free end of the brace 16, also pivotaly attached to the central supporting member 1 through the pivotal connection 16A. Members 14 and 16 are preferably of such length that when engaged the central supporting member makes an angle of 45° with the supporting surface.

For mounting the holder on a horizontal surface (Figs. I and II) a tongue member 17 is hingedly mounted on the bottom of the central supporting member 1. The tongue member 17 is inserted in the slot formed by the channelled member 18 attached to the top of a plate 19 resting upon a table or other horizontal surface. Plate 19 may be fastened to the top of a table by screws, or equivalent means such as a friction surface, suction cup, etc.

For mounting the holder on a vertical surface (Fig. III) there is provided a channelled bracket member 20 in which may be engaged the supporting leg member 14.

The operation of the device is as follows:

Assuming the holder is in the position shown in Fig. II the locking rod 10A is first removed and the book is inserted in the holder from the left hand side by sliding the edges of the book covers through the various flanges provided until the book is properly positioned and the top and bottom edges of the covers are engaged in the flanges 7. The locking rod 10A is then reinserted and it, together with the locking rod 10, securely hold the covers in the cover supporting elements. The top and bottom edges of the spine of the book are also engaged in the spine-holding elements 2A. The pages of the book freely pass the edges of the flanges 7. When the book is no longer being used the cover supporting members 4, 4A and 5, 5A, together with the book are rotated 90° into a plane at right angles to that represented by the surface of the drawing. Hook 11A is then inserted in eye 11 and turned, securely locking the two sides together. The hooks 12 are then disengaged and the spine supporting member 2, together with the cover supporting members and the book are rotated 90° into the position shown in Fig. I. The brace 16 is then disengaged from the catch 15 and the support-

ing leg 14 and brace 16 are folded against the underside of the central support 1, after which the whole assembly is laid flat on the table. When the book is to be used again the process is simply reversed, except of course, that it will not be removed from the holder.

When the device is mounted on a wall or other vertical surface the operation is essentially the same, except that the book lies flat against the wall in a vertical position when not in use, instead of in a horizontal position.

It will be readily seen that the device of the present invention provides a convenient means for displaying large and heavy display books of all kinds. When in use a book is readily accessible and easy to use, but when not in use it can be folded against the supporting surface in an inconspicuous manner. The device can be mounted in a convenient place for use, but when not in use it is out of the way. In the past it has been customary to mount such books upon a specially built stand which whether resting on the floor or a counter always takes up a lot of room, whether the book is being used or not.

It will be understood that various changes and modifications may be made without departing from the spirit of the invention. Changes in the form of the various parts may be made, and equivalents of the specific elements shown may be employed.

Having described the invention, what is claimed is:

1. In a device of the character described, an elongated central supporting member, an arm carrying member pivotally attached to said central supporting member to swing about an axis parallel to the longitudinal axis of the central supporting member, arms pivotally attached at each side edge of said arm carrying member, and a supporting leg pivotally attached to said central supporting member.

2. In a book holding assembly a central supporting member, a book spine supporting member pivotally mounted on said central supporting member to swing about an axis parallel to the longitudinal axis of the central supporting member, and book cover supporting members pivotally mounted on said book spine supporting member.

3. In a book holding assembly a central supporting member, a book spine supporting member pivotally mounted on said central supporting member to swing about an axis parallel to the longitudinal axis of the central supporting member, book cover supporting members pivotally mounted on said book spine supporting member, and pivotally mounted means on said central supporting member for removably mounting the assembly on a supporting surface.

4. In a book holding assembly a central supporting member, a book spine supporting member pivotally mounted at one edge of said central supporting member, book cover supporting members pivotally attached to said spine supporting member, and means for locking said spine supporting member to said central supporting member.

5. In a book holding assembly, a central supporting member, a book spine supporting member pivotally mounted on one edge of said central supporting member, and book cover supporting arms pivotally mounted at each side edge of both the top and bottom of said book spine supporting member adapted to engage the top and bottom edges of the covers of a book.

6. In a book holding assembly, a central supporting member, a book spine supporting member pivotally mounted at one edge of said central supporting member, book cover supporting arms pivotally mounted at each side edge of both the top and bottom of said book spine supporting member adapted to engage the top and bottom edges of the covers of a book and locking means connecting the book supporting arms for each book cover, for holding the covers securely in the respective book supporting arms.

7. In a book holding assembly, a central supporting member, a book spine supporting member pivotally attached at one side edge of said central supporting member, and book cover supporting arms pivotally mounted at each side edge of both the top and bottom of said book spine supporting member, said book supporting arms having over-turned flanges adapted to engage the top and bottom edges of the covers of a book.

8. The device of claim 6 in which the top and bottom of the spine supporting member is provided with overturned flanges for engaging the top and bottom respectively of a book spine.

9. In a book holding assembly, a central supporting member, a book spine supporting member pivotally attached at one edge of said central supporting member, book cover supporting arms pivotally mounted at each side edge of both the top and bottom of said book spine supporting member, each cover supporting arm being provided with an overturned flange adapted to engage the edge of a book cover, and means on the lower book cover supporting members for supporting the pages of a book.

10. In a book holding assembly, a central supporting member, a book spine supporting member pivotally attached at one side edge of said central supporting member, book cover supporting arms pivotally mounted at each side edge of both the top and bottom of said book spine supporting member, and pivotally mounted means on said central supporting member for removably mounting the assembly on a supporting surface.

11. In a book holding assembly, a central supporting member, a book spine supporting member pivotally attached at one side edge of said central supporting member, book cover supporting means pivotally mounted on said book spine supporting member, a supporting leg pivotally mounted at the top of said central supporting member, and a brace having one end pivotally attached to said central supporting member and the other end removably engaging said supporting leg.

12. In a book holding assembly, a central supporting member, a book spine supporting member pivotally mounted at one side edge of said central supporting member, book cover supporting arms pivotally mounted at each side edge of both the top and bottom of said book spine supporting members for engaging the top and bottom edges of the covers of a book, and rods connecting the top and bottom supporting arms for each book cover near the outer ends of said arms, one of said rods being removable and the other being irremovable, one of said rods having an eye on one end and the other having a hook on one end adapted to be inserted in said eye when the top and bottom arms respectively are in juxtaposition to lock the same together.