T. C. HOWE.

DISPLAY DEVICE.

APPLICATION FILED APR. 15, 1922.

1,425,259.

Patented Aug. 8, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

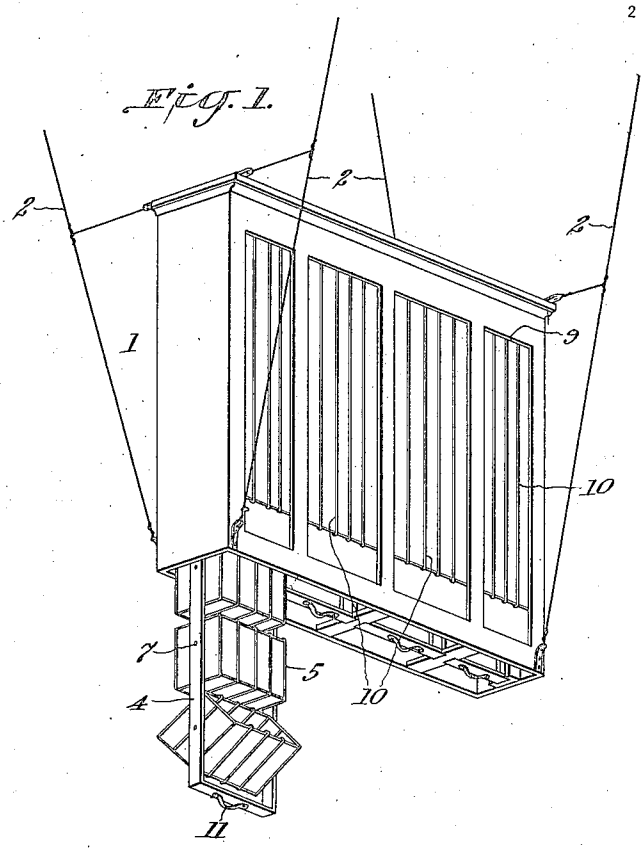
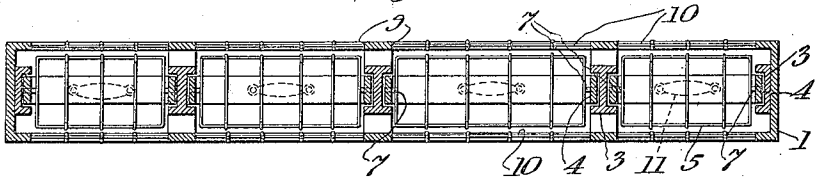



Fig. 4.




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2 SHEETS—SHEET 2.

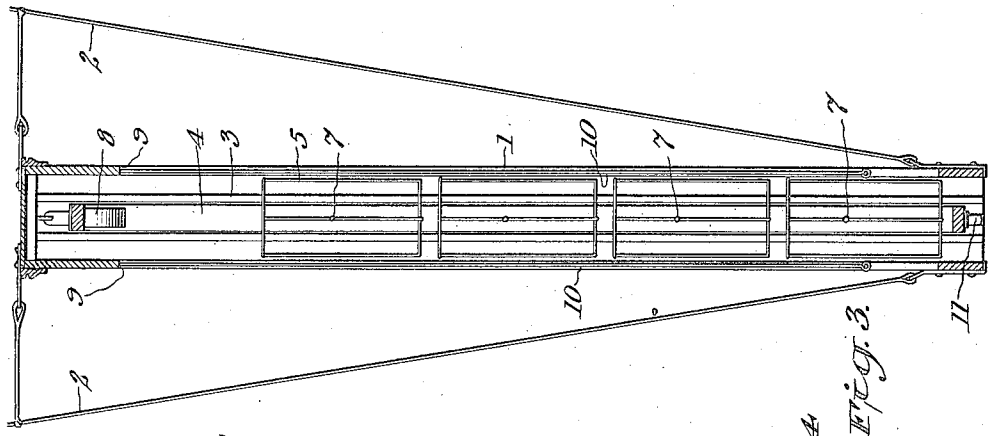


Fig. 3.

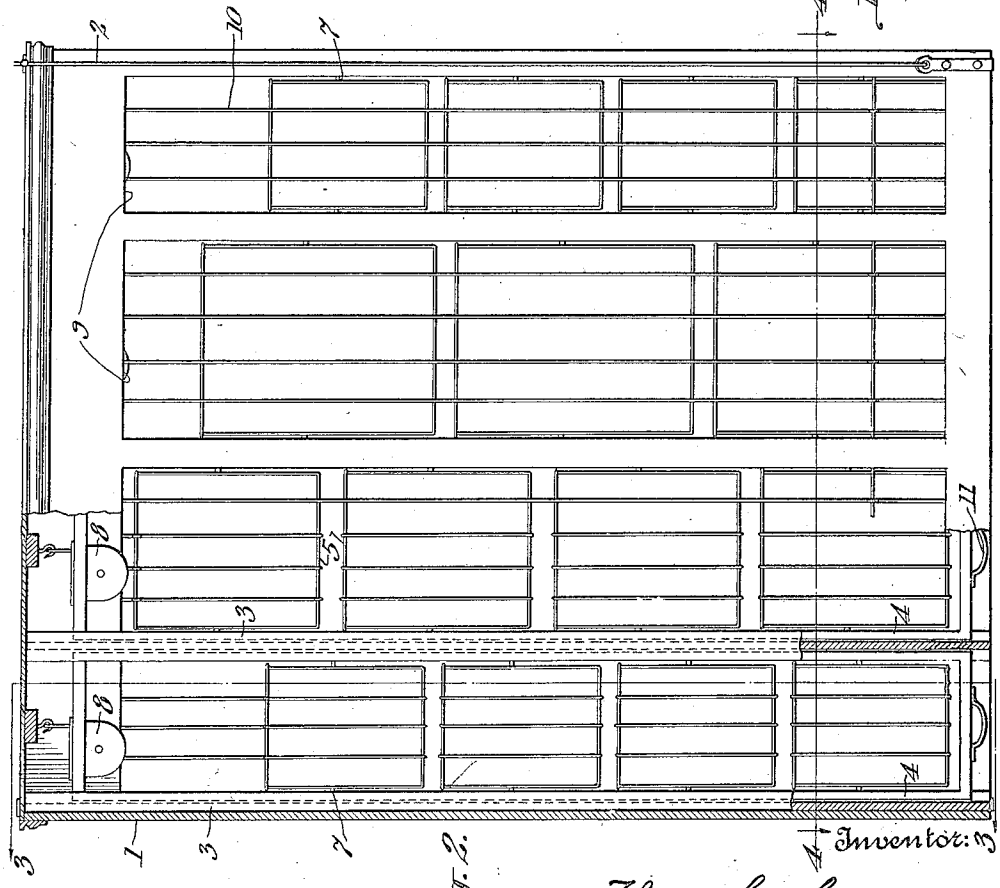


Fig. 2.

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# UNITED STATES PATENT OFFICE.

THOMAS CHARLES HOWE, OF LOUISVILLE, KENTUCKY.

## DISPLAY DEVICE.

1,425,259. Specification of Letters Patent. Patented Aug. 8, 1922.

Application filed April 15, 1922. Serial No. 552,869.

*To all whom it may concern:*

Be it known that I, THOMAS CHARLES HOWE, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Display Devices, of which the following is a specification.

My invention relates to display devices and particularly to a display device in which the articles placed therein are in full view but from which they are removable only after a movement of a portion of the device.

It is an object of the invention to provide an improved form of a display device of the type stated. An object of the invention is to provide a display device having one or more supports upon which articles may be arranged for display but from which they cannot be removed until the support has been moved from its normal position. More specifically an object of the invention is to provide a display device which may be supported at a convenient height above the floor level and which includes one or more article supports which are normally held in raised position and from which the articles cannot be removed until the support has been moved into a lower position.

These and other objects of my invention will be apparent from one embodiment of my invention which is described in the following specification and illustrated in the accompanying drawings:

In the drawings—

Fig. 1 is a perspective view of a display device embodying my invention;

Fig. 2 is a sectional elevation through the device;

Fig. 3 is a vertical transverse section on line 3—3 of Fig. 2, and

Fig. 4 is a longitudinal section on line 4—4 of Fig. 2.

In the drawings, the cabinet within which the various article supports are carried is designated by the numeral 1, and comprises in effect a bottomless box which may be supported at any desired elevation above the floor level, as by means of suspending straps or wires 2. The cabinet 1 may comprise one or more units as desired, and for each of said units a pair of vertical guides 3, 3 are provided. Upon a rectangular frame 4 which is slidably arranged in the guides 3, 3 a plurality of article supports 5 are mounted. The article supports may take various forms according to the nature of the objects which are to be displayed and in the embodiment illustrated, which is particularly adapted for the display of books, magazines or the like, baskets formed of spaced wires constitute the article supports. The baskets 5 are preferably pivotally supported in the frame 4 at points 7 located above the center of gravity of the respective baskets so that the baskets will be normally retained in their upright position. The frames 4 are approximately of the same length as the cabinet 1 and are normally maintained at the upper limit of their range of movement by yielding means, such as coil springs 8 which are mounted on the frames 4 and have their free ends connected to the top of the cabinet.

To permit inspection of the articles contained in the baskets 5, portions of the walls of the cabinet 1 are cut away to provide openings 9 in line with the various sets of baskets carried by the frames 4, and these openings may be provided at one side, or on opposite sides of the cabinet. To prevent the removal of articles from the baskets 5 when the frames 4 are in their raised positions, the upper portions of the vertical openings are provided with means for preventing access to the interior of the cabinet. The means employed must permit a full view of the articles displayed and preferably consists in some form of open metal work, such as the grille work 10. The grille work 10 extends below the top of the lowest basket 5 when the frames 4 are in raised position, and below the grille work the openings 9 in the walls of the cabinet are unobstructed. To insert or remove articles from a basket 5 the frame 4 is lowered until the top of the particular basket is accessible through the lower or unobstructed portion of the opening in the cabinet wall.

The baskets 5 may be of any desired length or width to provide for the display of articles of various sizes, but the distance between the opposite faces of the baskets is but slightly less than the distance between the inner faces of the front and rear walls of the cabinet. When the frames 4 are in raised position the baskets 5 cannot be tilted about the pivots 7 but when a frame is lowered to position a basket below the cabinet, the basket may be readily tilted. This tilting of the baskets is of advantage when a

large article or when several articles are to be inserted in or removed from a basket at one time.

For convenience in lowering the frames 4 to render the baskets 5 accessible the bottom of each frame is provided with a handle 11.

The cabinet 1 is suspended at a convenient height above the floor and the articles for display may be placed in the various baskets upon moving the baskets below the cabinet or into line with the unobstructed portions of the openings in the cabinet walls. The spring 8 returns the frame and baskets to raised positions upon release of the handle 11 and the basket openings are then behind the grille work 10. In this position the grille work 10 will not interfere with the adequate display of the articles but will prevent removal of the same. The articles are thus protected from casual handling but are readily removable upon the lowering of the baskets.

It is to be understood that the specific embodiment above described is merely illustrative of my invention and that many other forms of article supports may be used, and that the grille work shown may be replaced by glass or by other forms of open grille work, and that various changes may be made in the parts, their relative size, shape and location without departing from the spirit of my invention.

I claim:

1. In a display device, a cabinet provided with aligned vertical openings in its opposite walls, a frame vertically movable in said cabinet, a plurality of article supports carried by said frame and located between said aligned openings, means extending across the upper portions of said openings preventing access to the interior of the cabinet, and means normally retaining said frame in raised position and yieldable to permit downward movement thereof.

2. In a display device, a cabinet, a frame movable in said cabinet, article supports carried by said frame, means normally retaining said frame in one extreme position in said cabinet, and means forming portions of the opposite walls of said cabinet and permitting a free view of the opposite sides of said article supports when in their normal position while preventing access to the same, said cabinet having openings permitting access to said article supports when said frame is moved from its normal position.

3. In a display device, a frame, a plurality of vertically aligned article supports pivotally mounted on said frame, a cabinet for supporting said frame for vertical movement, means normally holding said frame and article supports in the upper portion of said cabinet, and means on said cabinet preventing access to said article supports when in their normal position, said cabinet having openings in vertical alignment with said article supports and below the level of the lowest article support when said frame is in its normal position.

4. In a display device, a cabinet provided with aligned vertical openings in its opposite walls, grille work extending across the upper portions of said openings, an article support within said cabinet and located between said openings, and means normally retaining said article support at the upper portion of said cabinet and yieldable to permit downward movement.

5. In a display device, a frame, a plurality of baskets mounted on said frame, a cabinet for supporting said frame for vertical movement, yielding means normally holding said frame and baskets in the upper portion of said cabinet, and means on the upper portion of said cabinet preventing access to said baskets when in their normal or upper position, said yielding means permitting movement of said frame into position to allow access to said baskets.

6. In a display device, a cabinet having an opening in one wall thereof, a frame slidable in said cabinet, an article support pivotally mounted on said frame, means on said cabinet and extending across the opening thereof preventing access to the interior of said cabinet, means normally retaining said frame in such position that the article support mounted thereon is behind said first mentioned means, and means on said cabinet preventing tilting of said article support when said frame is in normal position, said retaining means permitting movement of said frame into position wherein said article support may be tilted.

7. In a display device, a bottomless cabinet provided with an opening in one wall thereof, a frame vertically slidable in said cabinet, an article support pivotally mounted on said frame, means on said cabinet preventing access to the interior thereof through the upper portion of said opening, means normally retaining said frame in raised position, and means on said cabinet preventing tilting of said article support when said frame is in raised position, said frame being movable to position said article support below said cabinet.

8. In a display device, a bottomless cabinet adapted to be supported above the floor level, aligned vertical openings in the opposite walls of said cabinet, grille work extending across the upper portions of said openings, a frame vertically slidable in said cabinet, a plurality of baskets mounted on said frame and between said vertical openings, means normally retaining said frame and baskets within the upper portion of said cabinet and between said grille work, said means being yieldable to permit move-

ment of said baskets into position below the level of said grille work.

9. In a display device, a cabinet having aligned openings in its opposite walls, means for supporting said cabinet above the level of a floor, grille work extending across the upper portions of said openings, a frame vertically slidable in said cabinet, a plurality of vertically aligned baskets pivotally mounted on said frame and between said openings, means normally retaining said frame in raised position and yieldable to permit movement of said frame to position said baskets below said cabinet.

In testimony whereof, I affix my signature.

THOMAS CHARLES HOWE.