J. E. TALLEY AND J. W. THOMPSON.

DISPLAY APPARATUS.

APPLICATION FILED APR. 24, 1917.

1,332,081.

Patented Feb. 24, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

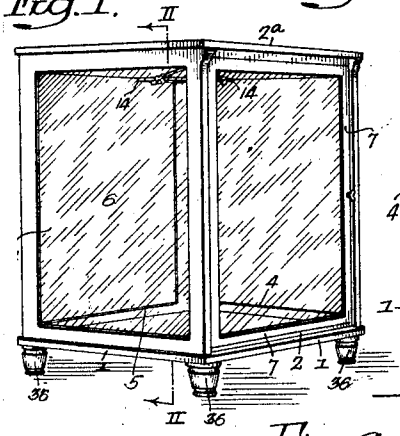


Fig. 5.

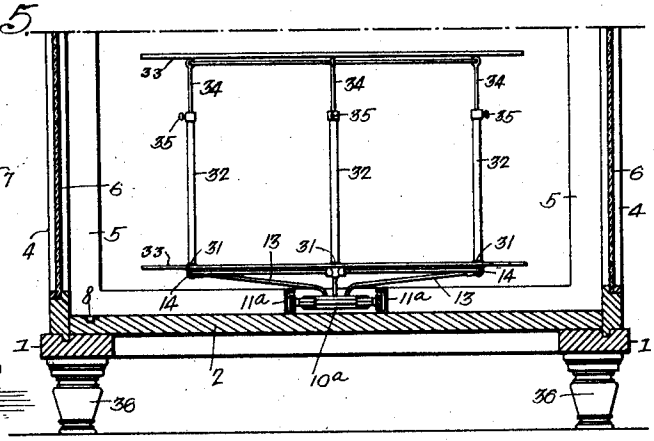


Fig. 6.

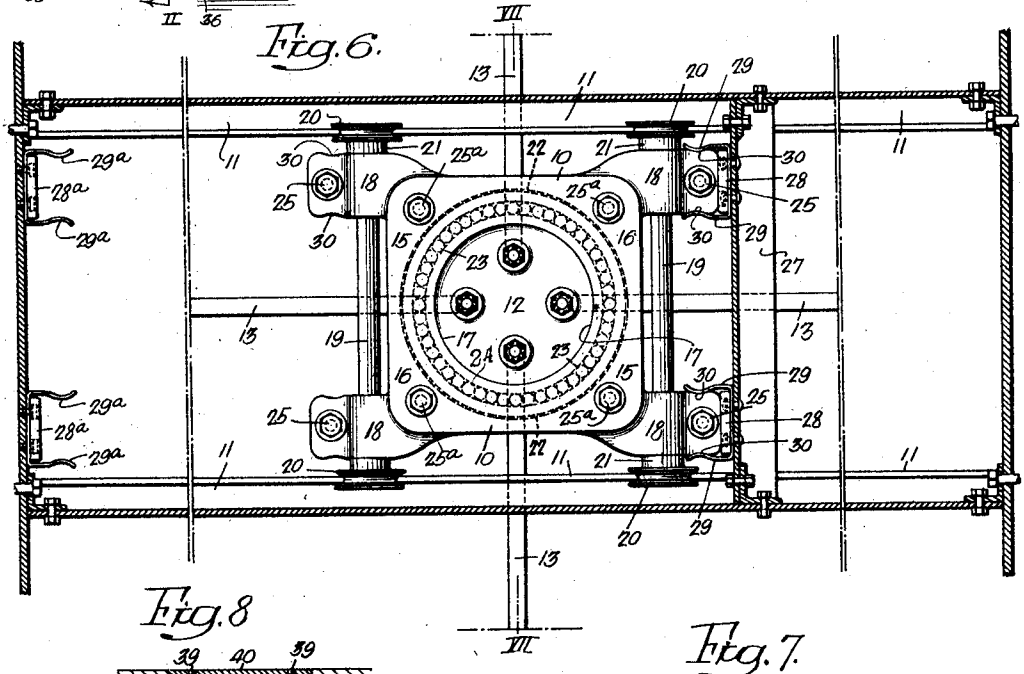


Fig. 8

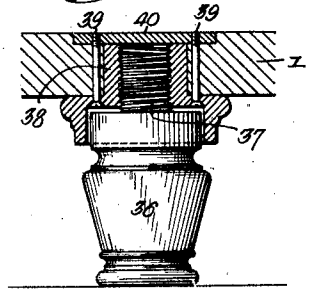
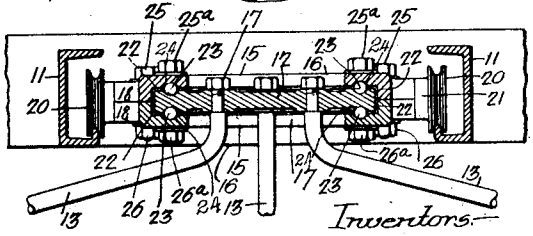


Fig. 7.



Inventors.

John E. Talley,

J. W. Thompson.

by their Attorneys.

Howson & Howson

J. E. TALLEY AND J. W. THOMPSON.

DISPLAY APPARATUS.

APPLICATION FILED APR. 24, 1917.

1,332,081.

Patented Feb. 24, 1920.

2 SHEETS—SHEET 2.

Fig. 4.

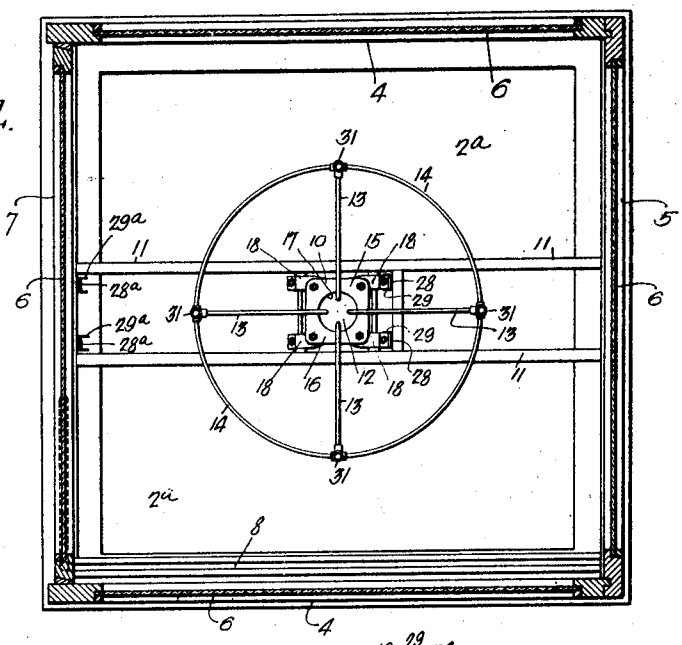


Fig. 3.

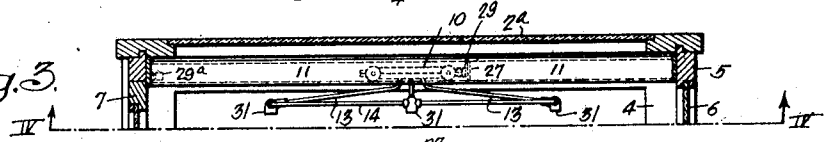
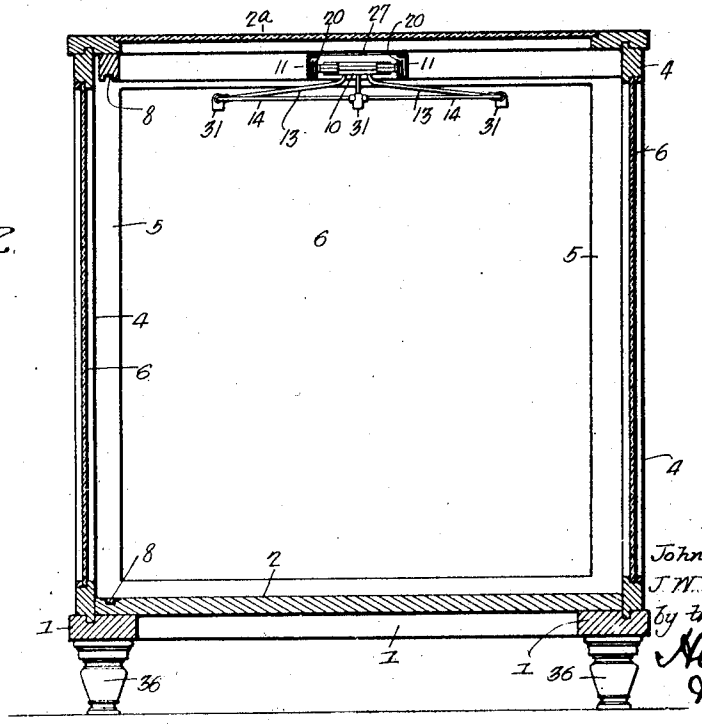


Fig. 2.



Inventors.—
John E. Talley,
J. W. Thompson.
by their Attorneys
Howson
& Howson

UNITED STATES PATENT OFFICE.

JOHN E. TALLEY AND JOHN W. THOMPSON, OF PHILADELPHIA, PENNSYLVANIA.

DISPLAY APPARATUS.

1,332,081. Specification of Letters Patent. Patented Feb. 24, 1920.

Application filed April 24, 1917. Serial No. 164,211.

To all whom it may concern:

Be it known that we, JOHN E. TALLEY and JOHN WILMER THOMPSON, citizens of the United States, and residents of Philadelphia, Pennsylvania, have invented certain Improvements in Display Apparatus, of which the following is a specification.

Our invention relates to merchandise display cabinets for stores, warerooms, and the like, designed to support and protect garments and other articles displayed for sale, and to dispose them in convenient position for examination and removal. Our improved structure may be employed as a unit cabinet or fixture, or the mechanism of the same may be employed in multiple in a larger cabinet or fixture designed to hold a plurality of the same.

One object of our invention is to provide a display cabinet or unit fixture of this type with an improved form of support arranged to travel within the cabinet, and which may be either at the top of the same or at the bottom thereof, to carry a revoluble member in either or both instances. When such support is disposed in the top of the cabinet, a hanger frame will depend from the revolving member upon which garments and other articles may be suspended, while when the support is disposed in the bottom of the cabinet or fixture, the revolving member may support a frame or rack upon which shelves of suitable type—glass, wood, or the like,—may be placed. In this instance, the frame or rack may be vertically extensible.

A further object of our invention is to provide friction catches for the traveling support so that it can not be accidentally displaced after being moved to the normal inner position, or after it has been moved to the outer position when the door has been opened.

And a still further object of our invention is to provide a traveling support or carriage available for use at the top or bottom of the cabinet by simple reversal with respect to tracks carried at top or bottom thereof or, in some instances, in both places; such carriage being of simple form and preferably made of a pair of plate members of the same size and shape, top and bottom. Each plate is provided with a recess having a ball-race for the reception of anti-friction balls, upon which a revolving member or turn-table carrying the hanger frame or rotatable rack may be mounted.

These and other features of our invention are more fully described hereinafter, reference being had to the accompanying drawings, in which:

Figure 1, is a perspective view of a display cabinet fixture made in accordance with our invention.

Fig. 2, is a sectional elevation of the same on the line II—II, Fig. 1.

Fig. 3, is a sectional elevation of the upper part of the structure at right angles to the view shown in Fig. 2.

Fig. 4, is an inverted plan view thereof, in section on the line IV—IV, Fig. 3.

Fig. 5, is a view of the lower portion of the structure illustrating a modified arrangement within the scope of our invention.

Fig. 6, is an enlarged plan view of the carriage.

Fig. 7, is a sectional view on the line VII—VII, Fig. 6, and

Fig. 8, is an elevation, partly in section, of an adjustable foot forming part of our invention.

Our improved portable display fixture or cabinet comprises a base frame 1, of wood or other suitable material, with a suitable floor panel 2, covering the same. The top may be similarly constructed, excepting that a glass panel 2^a is preferably employed with the same, and between the base and top, suitable side and back frames 4 and 5, are provided, which frames carry panels of wood, or glass panes 6, as may be desired.

At the front of the cabinet fixture, we prefer to provide a so-called, two-motion, receding door 7, which may be held in position by ball bearing casters (not shown) carried by the top and bottom rails thereof; such casters being arranged to operate in grooved metal tracks 8, carried by the top and bottom frames of the cabinet fixture, and in all general respects the structure may be built in accordance with the usual store cabinet fixtures of this general type heretofore and commonly now in use.

Display cabinets of this type must be provided with means to support various articles of merchandise, such as garments of various kinds; dresses, coats, skirts and the like, and in our improved structure such supporting means may be movably and rotatably suspended from the top of the fixture, or it may be carried by the bottom of the same and be arranged for longitudinal and revoluble movement within the structure to facilitate

examination of the merchandise carried therein.

Such supporting fixture comprises a carriage 10 (or 10ª), adapted to rails 11 (or 11ª); such carriage having a rotatable plate or turn-table 12, which carries a plurality of bracket rods 13, the outer ends of which may be connected to a circular hanger rail 14, from which garments or other articles of merchandise may be suspended by suitable means. The rails may be ordinary channel irons which will stiffen the structure; one flange of the same having its edge turned up for engagement by the wheels of the carriage.

Our improved carriage comprises a pair of metal plate sections 15, of similar size and shape, having a substantially square central portion 16; each plate being provided with a circular aperture 17, and having lugs 18, projecting from the four corners thereof. The several pair of lugs are provided with semi-circular registering recesses for the reception of shafts or spindles 19, upon which wheels 20 are mounted; collars 21, being interposed between the lugs and the wheel to properly space the latter.

The squared portions of each of the sections making up the carriage are recessed at 22, to provide space for the rotatable plate or turn-table 12, between which and the sections anti-friction balls 23, are interposed; the respective plates being provided with suitable ball races 24. The plates 15, may be secured together by bolts and nuts 25ª and 26ª, passing through the body of the same at the corners of the squared portions; the lugs 18, being additionally secured together by similar means indicated at 25 and 26, respectively.

Normally, the movable carriage 10, is centrally disposed within the casing of the cabinet fixture, and it is preferably maintained in this position by suitable means. In the present instance, the rails 11, are shown as connected by a cross piece 27, adjacent the center of the cabinet; the same serving to limit the inward movement of the carriage; and such cross-piece is preferably provided with buffer pads 28, against which the lugs 18, of the carriage may strike when it is pushed into the cabinet. Adjacent these buffer pads, we may provide spring fingers 29, adapted to engage the lug portions of the carriage; the latter being preferably shaped as by recessing at 30, to facilitate such engagement, as clearly indicated in Fig. 6. The spring fingers will provide sufficient friction to hold the carriage in relatively fixed position so that the plate or turn-table 12, may be freely rotated for the purpose of presenting toward the door opening of the cabinet any of the garments or other merchandise displayed therein.

At the front of the structure similar buffer pads 28ª and spring fingers 29ª, may be provided, so that when the carriage is brought forward to partially withdraw the hanger structure or other supporting means and permit ready access thereto, it will be held against longitudinal movement on the rails while the turn-table is rotated.

At the ends of the bracket rods 13, supporting the ring hanger 14, we provide tubular connections 31, to which depending rods may be attached if desired for any purpose; such connections 31, serving, when the structure is arranged at the bottom of the display cabinet, as indicated in Fig. 5, to support rods 32, with telescopic extensions, which rods, as well as their telescopic connections, may support shelves 33, of any suitable or desired character. In this instance, the rods 32, secured to the tubular connections are shown with rods 34, telescoping within the same and secured by suitable means as the thumb-screws 35.

It is quite essential in structures of this character that the same be set truly level in order to insure ready movement of the carriage on its rails and avoid resistance occasioned by undue friction. For this purpose, we prefer to provide the cabinet fixture with a special form of adjustable feet, one of which is clearly shown in Fig. 8. This structure comprises the foot proper, indicated at 36 having a threaded stem 37, adapted to a threaded socket 38, carried by the base frame 1, of the cabinet; such threaded socket being secured in position in a suitable socket of said frame by screws 39, passing through the same and into a plate 40, carried by the floor panel 2.

While we have described our structure as particularly desirable and available for the display of garments, it will be understood that it may be employed for the display of articles of merchandise of any character, and that when structures of the type illustrated in Fig. 5, are employed, shelves may be provided, of glass or other material, upon which may be displayed articles of jewelry, silverware, china, and the like, or any other articles of merchandise.

We claim:

1. The combination, in a goods display cabinet, of a casing having suitable walls and a door, a pair of rails mounted within said cabinet, a reversible wheeled carriage adapted to said rails comprising a pair of plates suitably secured together, a rotatable turn-table supported by said carriage and disposed between the plates constituting the same, ball bearings between said turn-table and the carriage, bracket arms secured to said turn-table, and a supporting member carried by said bracket arms.

2. The combination, in a goods display cabinet, of a casing having suitable walls and a door, a pair of rails mounted within said

cabinet, a reversible carriage adapted to said rails; said carriage comprising a pair of recessed plates of similar size and shape secured together and carrying wheels, a turn-table supported by said carriage and rotatable within the recess formed by said plates, bracket arms secured to said turn-table, and a hanger rack member carried by said bracket arms.

3. The combination with the casing of a goods display cabinet having rails mounted within the same, of a reversible carriage adapted to said rails and having limited movement thereon, a stop for limiting the movement of said carriage, lugs at the corners of said carriage, and spring clips for holding the carriage when it reaches the limit of its movement within the casing, said lugs being shaped for gripping engagement by said spring clips.

4. The combination with the casing of a good display cabinet having rails mounted within the same, of a reversible carriage adapted to said rails, a stop for limiting the inward movement of said carriage; the outward movement being limited by the frame of the casing, lugs at each corner of said carriage, and sets of spring fingers forming holding clips carried by the casing and the stop for limiting the inward movement of the carriage; said lugs being shaped for gripping engagement by said spring clips.

In witness whereof we affix our signatures.

JOHN E. TALLEY.
J. W. THOMPSON.