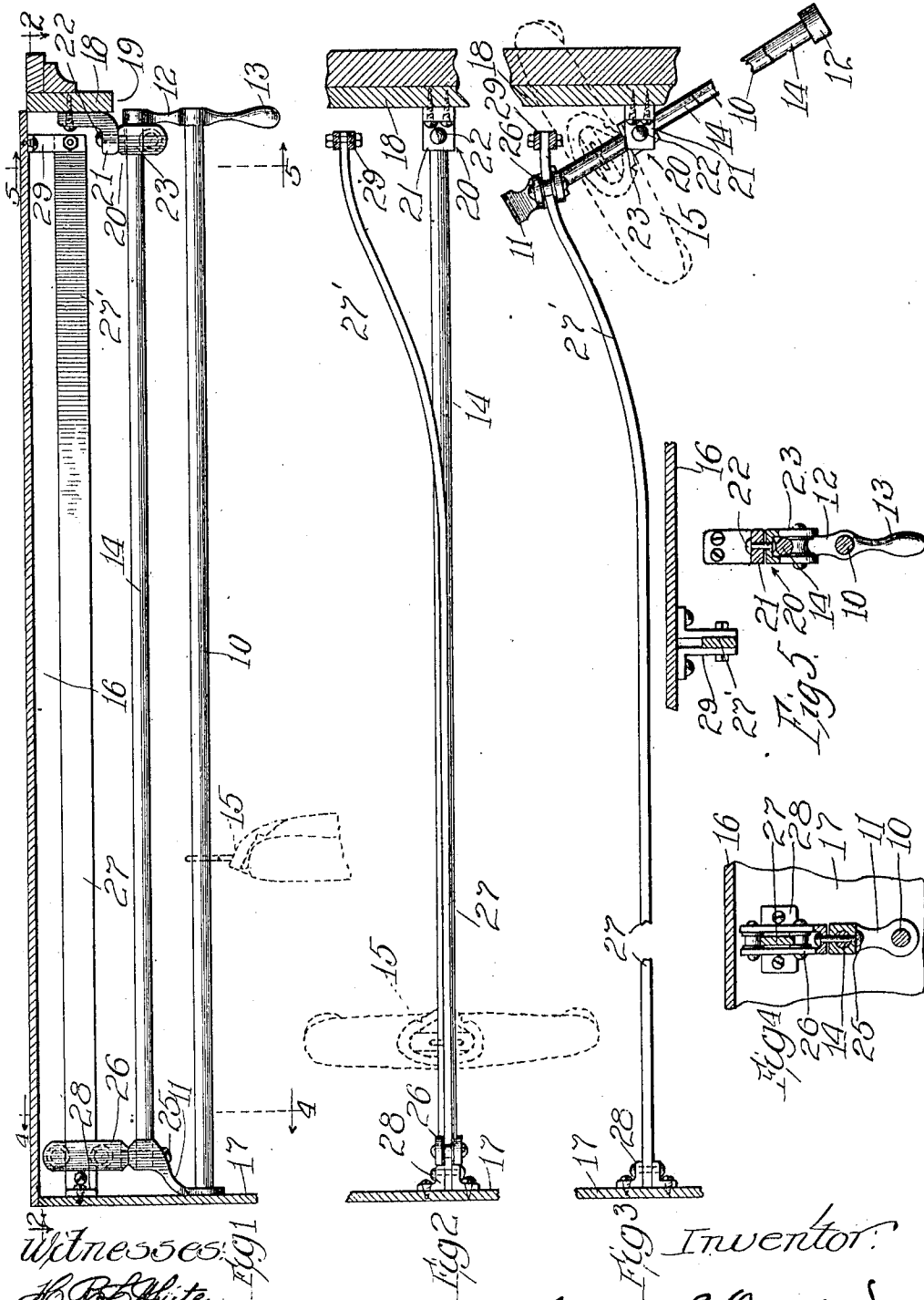


I. L. BRADFORD.
 DISPLAY APPLIANCE.
 APPLICATION FILED DEC. 29, 1909.

984,261.

Patented Feb. 14, 1911.



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DISPLAY APPLIANCE.

984,261.

Specification of Letters Patent.

Patented Feb. 14, 1911.

Application filed December 29, 1909. Serial No. 535,456.

To all whom it may concern:

Be it known that I, IRVING L. BRADFORD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Display Appliances, of which the following is a specification.

My invention relates to improvements in display appliances and the like, and has for its object to provide a construction whereby movable carriers for the display of goods may be moved with reference to associated stationary parts, as of a cabinet, for most convenient and efficient location both under storage conditions and when operated for display purposes.

Other objects of my invention will become apparent to those skilled in the art from the following description taken in conjunction with the accompanying drawings, wherein—

Figure 1 is a side elevation of the working parts of a structure embodying my invention with fragments of the cabinet parts in section; Fig. 2 is a section on line 2—2 of Fig. 1, with the parts in closed or storage position; Fig. 3 is a like view with parts in open or display position; Fig. 4 is a section on line 4—4 of Fig. 1; and Fig. 5 is a section on line 5—5 of Fig. 1.

In the embodiment of my invention shown, I provide a movable carrier, such as a display arm and means supporting and guiding said carrier for generally longitudinal movement, arranged to sustain said carrier at a plurality of points and in the course of its longitudinal movements to deflect the carrier to a position at an angle to its initial position.

In the specific construction shown 10 indicates a carrier or display arm in the form of a rod, which is conveniently connected with a rear end member or upright, 11, and with a front end member or upright, 12, the latter having a depending handle, 13. The uprights are connected also by a guide rod, 14, preferably lying directly above and parallel with the horizontal carrier 10, so that these parts, 10, 11, 12, and 14, form a skeleton frame standing in a vertical plane. The rod or carrier 10 is intended, in the particular construction shown, for the reception of the suspension hooks of coat hangers, 15, or the like, which may hang suspended at right

angles to the plane of the carrier. It is frequently advantageous to arrange a number of such carriers side by side at suitable distances apart in a storage area, herein shown as inclosed in a cabinet, 16, of which 17 indicates the rear wall and 18 a front head piece, below which is an opening, 19, in the front of the cabinet structure. Each carrier 10 is mounted for longitudinal movement to lie within or project from the storage area,—in this instance to stand wholly within the cabinet or to project through the opening 19 thereof,—and I provide a means for guiding and sustaining each carrier arranged to afford support thereto, preferably at a plurality of points, or so as to hold the carrier horizontal, and to guide the carrier frame to an open position at an angle to the vertical plane in which it stands when closed. Specifically, 20 indicates a front guiding structure comprising, in the present construction, a rigid bracket 21 secured to the head piece 18 of the cabinet, and affording support to a pivot 22 carrying a bearing member 23, preferably provided with a roller or other suitable anti-friction device, mounted to swivel horizontally with its vertical pivot 22. The rear frame member 11 has connected thereto a vertical pivot, 25, carrying a bearing member, 26, preferably having upper and lower anti-friction rollers, which engage a guide rail 27 secured in the cabinet 16 below its top, as by feet, 28, at its rear end and clips, 29, at its front end. The rail 27 runs throughout a portion of its length on a right line, running fore-and-aft in the cabinet, and preferably in the vertical plane of the carrier frame, when the latter is in closed position; but the forward end of the rail 27 is deflected laterally, as at 27', to a position laterally removed from the front guide structure 20.

Now, it will be apparent that the supporting and guiding means for the carrier 10 permit the latter to be moved longitudinally by the handle 13 to either open or closed position projecting from or retracted within the storage space, or cabinet, and guiding the movement of said carrier in such manner that when the latter is closed it stands at right angles to the front of the cabinet or storage space, and when opened stands laterally deflected at an angle preferably of

about 45° to its closed position. Thus, assuming the parts initially to stand in the position shown in Fig. 1, if the handle 13 be pulled forward, the guide rod 14 slides forward in the guide 23 and the rear hanger 26 rides along the rail 27, with the carrier 10 moving on a right line in a longitudinal direction until the hanger 26 rides upon the deflected portion 27' of rail 27, when the arm 10 begins to swing to an angular position, the front guide 23, and hanger 26, turning pivotally, so that when the supporting arm is in its final open position, it stands substantially as shown in Fig. 3. This effect is advantageous in many particulars, among which may be mentioned that the maximum projection of any carrier 10 from the storage space or cabinet is much less than it would be were the carrier moved straight fore-and-aft; and further, the angular relation of the carrier to its normal position is such that garments suspended as described from the carrier have their flank portions,—such as the shoulders, in the case of coats,—thrown out through the front opening 19 of the cabinet, so that garments are conveniently positioned for display or removal, none being wholly within the cabinet, as would be the case were a full carrier moved straight fore-and-aft.

While I have herein described in some detail embodiment of my invention which I believe to be new and useful, it will be apparent to those skilled in the art that many changes might be wrought without departure from the spirit of my invention and within the scope of the appended claims.

What I claim is:

1. In a structure of the character described, the combination of a carrier, a front guiding structure with respect to which said carrier may move longitudinally, a rear hanger secured to the rear end of said carrier, a guide for said rear hanger to permit lateral movement of said rear hanger as said carrier moves forward with respect to the front guide, thereby to provide two supports for said carrier when in its retracted position.

2. In a structure of the character described, the combination of a carrier, a front swiveling guiding and supporting structure with respect to which said carrier may be moved longitudinally, a rear swiveling guiding and supporting structure secured to the rear end of said carrier and a guiding support for said rear hanger to provide a longitudinal and relatively lateral path for said rear hanger as it is moved forward toward the front guiding support thereby providing two separated supports for said carrier when deflected from its normal position.

3. In a device of the character described, the combination of a carrier member, and a guide, a relatively stationary hanger near

the front end of the carrier when said carrier is in retracted position, and a hanger near the rear end of said carrier moving therewith along the guide in a longitudinal and finally transverse direction.

4. In a device of the character described, a carrier member and a guide, a relatively stationary swiveling hanger near the front end of the guide through which said carrier moves, and a swiveling hanger near the rear end of the carrier supported by the guide, said rear hanger moving longitudinally and transversely through a path provided by the guide.

5. In a device of the character described, the combination of a carrier, a front guiding structure with respect to which said carrier may move longitudinally, a rear hanger for said carrier, and a guide for said rear hanger at one end shaped to deflect the rear end of the carrier laterally as said carrier moves forward with respect to the front guide.

6. In a device of the character described, the combination of a carrier, a guide bar connected thereto, a front guide for said bar, a rear hanger for the carrier, and a rail coöperating with said hanger arranged to deflect the rear end of the carrier laterally as the guide bar moves forward through its front guide.

7. In a device of the character described, the combination of a cabinet having a front opening, a guide rail within the cabinet, having its front end laterally removed from the fore-and-aft line of its rear end, a swivel guide adjacent the front of the cabinet, a guide bar running in said swivel guide, a carrier connected to said guide bar, and a hanger connected to and movable with said carrier and coöperating with said guide bar, whereby the main member is movable to lie stored within the cabinet or project through the front opening and in the course of its forward movement is laterally deflected to angular relation to its stored position.

8. In a device of the character described, the combination of a cabinet having a front opening, a carrier lying normally longitudinally in the cabinet, a hanger therefor at its outer end, a hanger at its inner end, and a support above said carrier for the last said hanger in a line substantially parallel with the normal position of said carrier, said support having a lateral deflection near the front thereof, whereby the carrier may be moved in a longitudinal forward direction nearly to its limit of movement and thereafter to an angular lateral position.

9. In a structure of the character described, a carrier member and a supporting guide, the latter providing a longitudinal and finally a transverse path for a rear hanger carried by said carrier, a hanger on the rear end of said carrier adapted and

arranged to pass along the path provided by said guide, and a front hanger fixed independently of the guide supporting the front end of said carrier when said carrier
5 is in retracted position, and permitting deflection thereof by the guide when said carrier is in extended position.

In testimony whereof I hereunto set my hand in the presence of two witnesses.

IRVING L. BRADFORD.

In the presence of—

FORÉE BAIN,

W. LINN ALLEN.