

W. K. WILLIAMS.  
INCLOSED DISPLAY RACK.  
APPLICATION FILED JUNE 17, 1909.

941,483.

Patented Nov. 30, 1909.

2 SHEETS—SHEET 1.

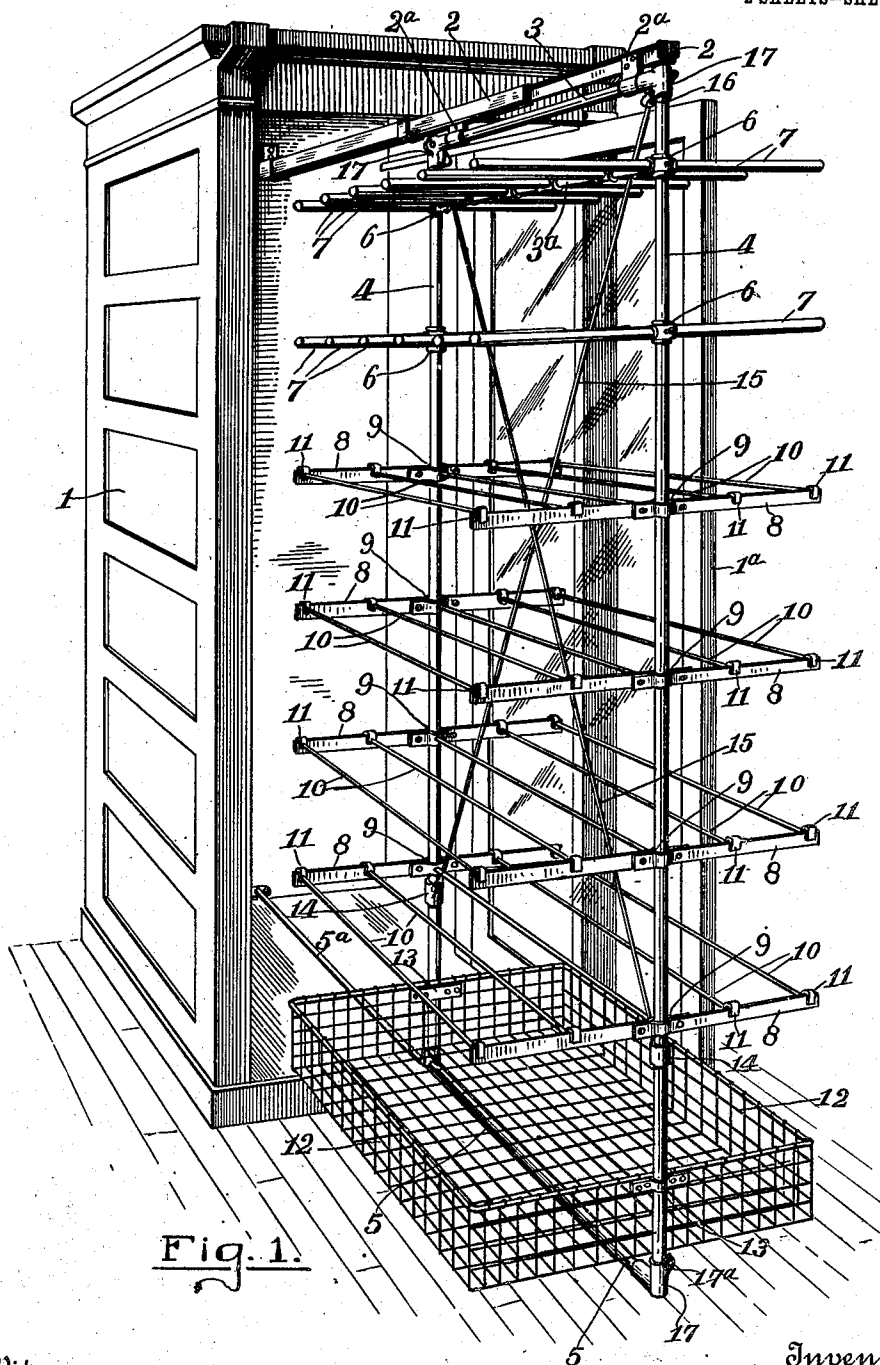


Fig. 1.

Witnesses  
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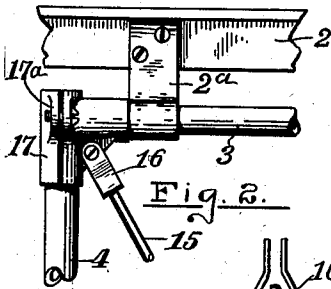


Fig. 2.

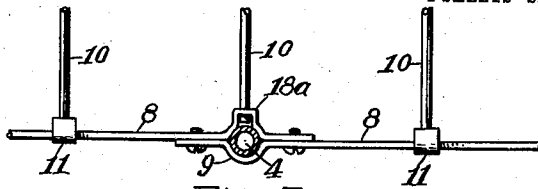


Fig. 5.

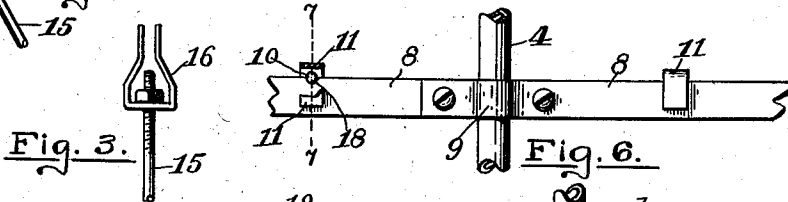


Fig. 3.

Fig. 6.

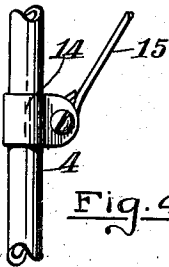


Fig. 4.

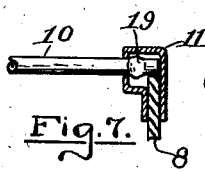


Fig. 7.

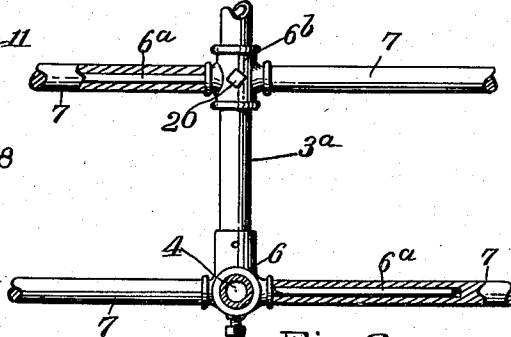


Fig. 8.

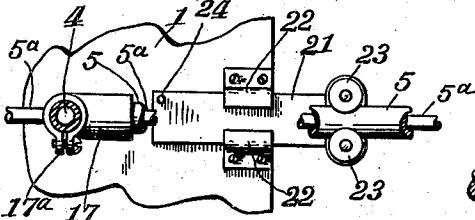


Fig. 10.

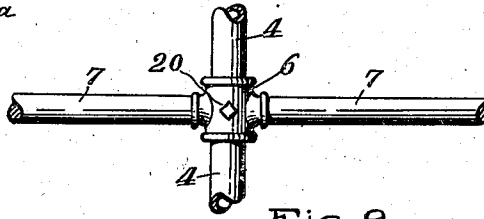


Fig. 9.

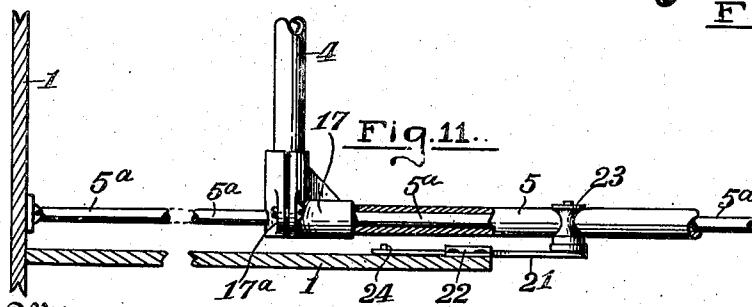


Fig. 11.

Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM K. WILLIAMS, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO GRAND RAPIDS SHOW CASE COMPANY, OF GRAND RAPIDS, MICHIGAN, A CORPORATION OF MICHIGAN.

## INCLOSED DISPLAY-RACK.

941,483.

Specification of Letters Patent.

Patented Nov. 30, 1909.

Application filed June 17, 1909. Serial No. 502,652.

*To all whom it may concern:*

Be it known that I, WILLIAM K. WILLIAMS, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Inclosed Display-Racks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in inclosed display racks, and its object is to provide a display rack having various novel features; to provide means for movably supporting the same within a case or cabinet, whereby the rack can be moved wholly outside of the cabinet at pleasure, and to provide the device with various new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which:-

Figure 1 is a perspective of a device embodying my invention with the rack extended outside the case; Fig. 2 a detail in elevation of one upper corner of the rack, and a part of the supporting slide; Fig. 3 a detail of one end of the brace rod and yoke connected therewith; Fig. 4 a detail of the opposite end of the brace rod; Fig. 5 a detail in plan view of a portion of the rack; Fig. 6 an elevation of the same; Fig. 7 an enlarged detail in vertical section on the line 7-7 of Fig. 6; Fig. 8 a detail in plan view of another portion of the rack; Fig. 9 an elevation of the same; Fig. 10 a detail in plan view of a portion of the bottom of the rack and the guiding means therefor; and, Fig. 11 an elevation of the same.

Like numbers refer to like parts in all of the figures.

1 represents a case of any preferred and suitable dimensions and provided with a front door 1<sup>a</sup>. 2 is a telescopic extension slide of any convenient construction mounted in the top of the case, and adapted to extend outside the same.

2<sup>a</sup> are clips whereby the upper member 3 of the rack frame is secured to the outwardly movable member of the slide and carried thereby wholly outside the case or

wholly within the same. Extending downward from the respective ends of this upper member 3 are the vertical members 4 of said frame, which members extend downward to near the bottom of the case and are connected at the bottom by a horizontal member 5. These upper and lower members 3 and 5 and vertical members 4 are connected at the corners by means of angular sockets 17, one part of each being provided with divided and clamping means 17<sup>a</sup>, whereby the vertical member is detachably secured therein, the other part being fixed on the respective horizontal member, whereby the frame may be taken apart for convenience in storage or shipment.

To strengthen the frame, diagonal brace rods 15 are provided and attached to the vertical members of the frame at one end by clips 14 and to the upper angle sockets at the other end by yokes 16 within which are nuts on the rods to tighten the same as shown in Fig. 3.

At intervals on the vertical members 4 are adjustable sleeves 6 held in adjustment by set screws 20, and provided with horizontal sockets to receive intermediate horizontal members 3<sup>a</sup> of the frame, extending between the front and rear vertical members 4 thereof. These sleeves also have oppositely projecting pins 6<sup>a</sup> at right angles to the sockets, on which are oppositely projecting arms 7 upon which may be hung garments or other goods.

At intervals on the horizontal members 3<sup>a</sup> are also adjustable sleeves 6<sup>b</sup> held by set screws 20, which are also provided with oppositely projecting pins 6<sup>a</sup> on which are other corresponding oppositely projecting arms 7.

I also provide adjustable shelves consisting of parallel horizontal rods 10 spaced apart, which rods are supported upon arms 8 by means of clips 11. These clips are fixed on the ends of the rods 10 by means of a slight enlargement 19 in the rod near its inner end and within the clips. These clips extend downward from the rod and embrace the bars 8. The rods also rest in concavities or recesses 18 at intervals in the upper edges of the bars 8. These bars 8 are clamped upon the vertical members 4 by being overlapped opposite the same, and provided with

concave portions 9 embracing the members 4, and the bars secured to each other by suitable bolts as illustrated in Figs. 5 and 6. These bars opposite the central rod 10 are chambered as at 18<sup>a</sup> in Fig. 5 to receive the end of the rod.

I also prefer to provide a basket 12, preferably of open wire work, and supported upon the lower member 5 of the frame, being secured in place by clips 13 embracing the vertical members 4 and attached to the basket, whereby the basket is carried within the frame. At the bottom this frame is guided in part by a rod 5<sup>a</sup> fixed to the back of the case and slidable within the tubular member 5, and further guided by means of a slide 21 beneath the member 5 and movably attached to the bottom of the case by means of clips 22, within which this slide is longitudinally movable. A pin 24 limits the outward movement of the slide, and on the outer end thereof is mounted upon vertical axes concave rollers 23 which oppositely engage the lower member 5 of the frame and prevent the same from swinging laterally. These rollers engage the corner sockets 17 and limit the movement of the frame, and the slide 21 permits the movement of these rollers sufficient to permit the frame to move wholly outside of the case, and also inward wholly within the same.

What I claim is:—

1. The combination of a case, an extensible slide in the top of the case, a frame carried by the slide and adjusted thereby to be wholly outside of the case or to be wholly within the same, a slide beneath the frame and movably attached to the case, and rollers on the slide engaging opposite sides of the lower member of the frame to guide the same.

2. The combination of a case, an extensible slide in the top of the case, a frame carried by the slide and adjusted thereby wholly within the case or wholly outside of the same, said frame also having a tubular lower member, a slide movably attached to the bottom of the case and located below the frame, rollers on the slide engaging opposite sides of the lower member of the frame, and a rod attached at one end to the case and slidable within the tubular lower member of the frame at the other end.

3. A display rack, comprising a frame composed of two horizontal and two vertical members, angle sockets detachably connecting said members at their adjacent ends, sleeves on the vertical members provided with sockets, horizontal members supported in the sockets, sleeves on said horizontal members, and oppositely projecting arms carried by the respective sleeves.

4. A display rack, comprising an upper horizontal member, a lower horizontal member, two vertical members connecting the

upper and lower members, angular sockets connecting the ends of said members, sleeves on the vertical members, each sleeve having a socket and oppositely projecting pins, a horizontal member supported in said sockets, sleeves on said horizontal member and having oppositely projecting pins, and oppositely projecting arms on the respective pins.

5. A display rack, comprising a rectangular frame having horizontal and vertical members, oppositely projecting arms overlapping at their adjacent ends and secured to each other and also provided with concave portions in said overlapping ends to engage the vertical frame members, and parallel rods supported by the arms.

6. A display rack, comprising a rectangular frame having vertical members, arms projecting horizontally from said members, rods extending between said arms, and clips located on the ends of the rods and embracing the arms.

7. A display rack, comprising a rectangular frame having vertical members, arms projecting oppositely from said members and parallel to each other, and also having recesses at intervals, clips embracing said arms, and parallel rods inserted in said clips and engaging the recesses in the arms.

8. A display rack, comprising a rectangular frame having vertical members, flat arms overlapping at their adjacent ends opposite the same members and having concave portions to embrace the same, said arms also having recesses at intervals, parallel rods spaced apart and engaging the recesses, clips embracing the arms and inclosing the ends of the rods, and means for securing the clips upon the ends of the rods.

9. A display rack, comprising horizontal top and bottom members, vertical members connecting the ends of the top and bottom members, angular sockets to attach the adjacent ends of the said members, said sockets being longitudinally divided and provided with clamping means to detachably secure them to said members, detachable sleeves on said vertical frame members, and oppositely projecting arms supported by said sleeves.

10. A display rack, comprising horizontal top and bottom members, vertical side members, detachable corner fastenings to secure the said members to each other at their adjacent ends, detachable sleeves on the vertical members and having sockets, a horizontal member supported in said sockets, sleeves on said member, and oppositely projecting arms on each of the sleeves.

11. A display rack, comprising a frame having horizontal top and bottom members and vertical members detachably secured to the top and bottom members, detachable sleeves on the vertical members and provided with sockets, a horizontal member in the

sockets, sleeves on said members, oppositely  
projecting arms on all of the sleeves, oppo-  
sately projecting arms having overlapping  
ends provided with concave portions engag-  
5 ing the vertical members of the frame and  
secured thereto, rods supported by the arms,  
a basket mounted in the lower part of the  
frame and carried thereby, a case, and means

for movably supporting the frame in the  
case.

In testimony whereof I affix my signature 10  
in presence of two witnesses.

WILLIAM K. WILLIAMS.

Witnesses:

C. S. ALLEN,  
B. VAN RY.