

A. E. MILLER.
 DISPLAY RACK.
 APPLICATION FILED MAR. 7, 1911.

993,186.

Patented May 23, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

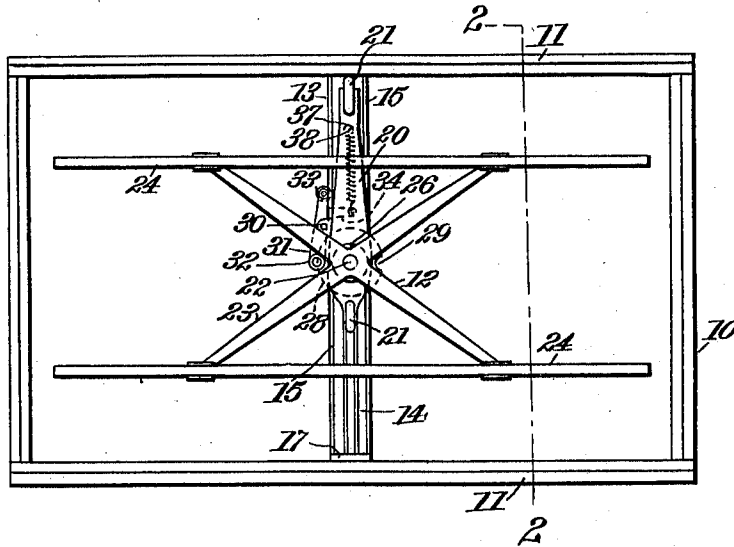


Fig. 2.

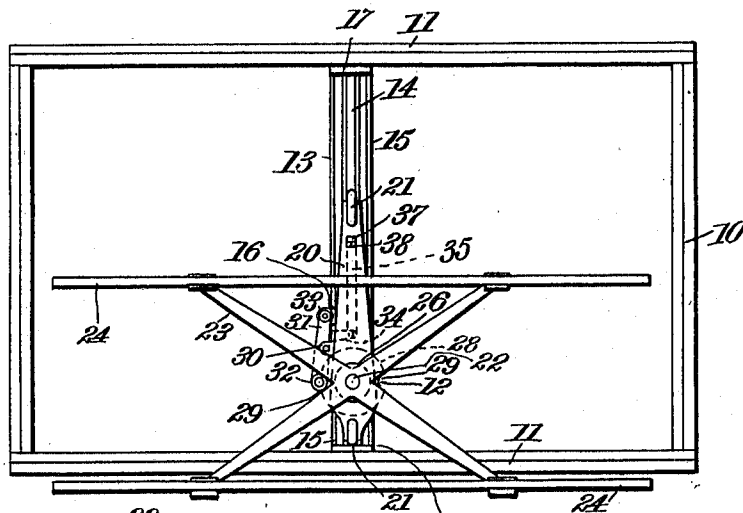
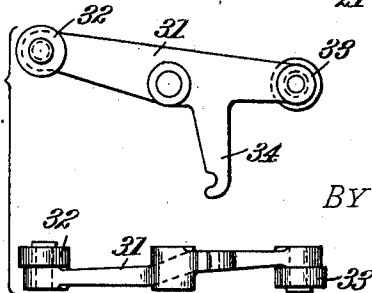


Fig. 4.

WITNESSES.

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 Attorney

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Fig. 3.

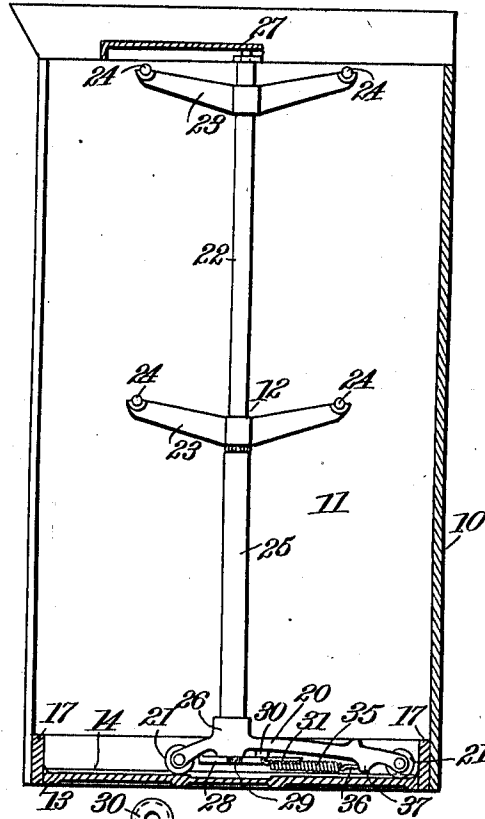


Fig. 5.

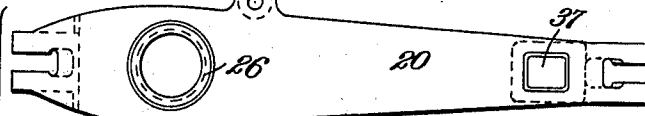
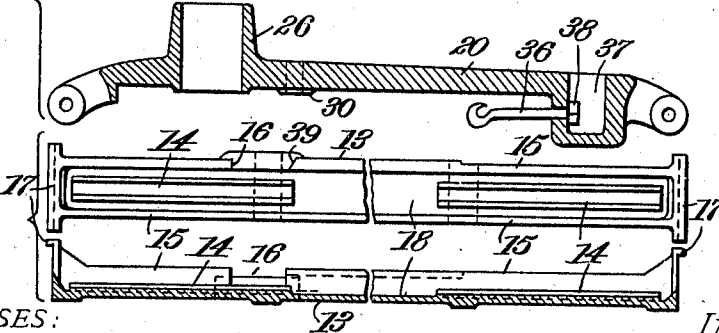


Fig. 6.



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UNITED STATES PATENT OFFICE.

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DISPLAY-RACK.

993,186.

Specification of Letters Patent.

Patented May 23, 1911.

Application filed March 7, 1911. Serial No. 612,830.

To all whom it may concern:

Be it known that I, ANDREW E. MILLER, a subject of the King of Great Britain, residing in the city of Baltimore, in the State of Maryland, have invented new and useful Improvements in Display-Racks, of which the following is a specification.

This invention relates to certain new and useful improvements in display racks for garments and the like.

One of the objects of the invention is the provision of improved means whereby the garments may be conveniently and compactly stored in dust proof cases, and yet be readily accessible for exhibition to a customer by a salesman.

A further object is to provide improved means for guiding the rack so that the same may be readily withdrawn from the case and revolved when it is desired to display the goods supported thereby.

A further object is to provide improved locking means for preventing the rotation of the rack while in the case.

A further object is to provide means for automatically disengaging the rack from the locking device as the former is withdrawn from the case.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings:—Figure 1 is a top plan view illustrating a case containing my improved display rack, the rack being within the case, the top being removed. Fig. 2 is a similar view with the rack withdrawn. Fig. 3 is a sectional view on the line 2—2 Fig. 1. Figs. 4, 5 and 6 are detail views illustrating the locking pawl and track.

Referring to the drawing, 10 designates a case of any suitable or preferred construction, that shown being provided with front sections 11 capable of being removed to permit the withdrawal of the display rack, indicated as a whole by the numeral 12. To the bottom of the case is secured a lower guide rail comprising a plate or casting 13 provided with guide channels 14 and side flanges 15, one of the latter being cut away as indicated at 16. Suitable flanges 17 are provided for limiting the movement of the display rack in either direction. The guides or channels 14 may be constructed in any

preferred manner, the form illustrated consisting of the groove 18 formed in the bottom of the plate or casting 13, the metal being reduced between the sides of the guide and the flanges 15.

The rack 12 is supported by carriage 20 provided with supporting rollers 21 at each end and mounted in the respective channels 14. The rack itself comprises a rod 22 to which suitable heads 23 are secured for supporting the rods or bars 24 upon which the garments are to be suspended. Said rod is rotatably mounted in a hollow column 25 rigidly secured within a boss 26 of the carriage 20. The upper end of the rod 22 engages a guide 27 formed in the top of the case 10 and serving to maintain the rack in its correct vertical position. The rod 22 projects through the bottom of the carriage 20 and to the lower end thereof is secured a disk 28 having its periphery provided with opposite notches 29. The carriage 20 is provided with a lateral lug 30 in which is pivotally mounted a dog 31 having rollers 32, 33 mounted in the ends respectively, said dog being provided with a lateral hook 34. It will be noted that the roller 32 is mounted on top of said dog and the roller 33 is mounted beneath the dog. The hook 34 is engaged by one end of a spring 35, the other end of said spring being secured to a hook 36 having a shank projected through the wall of a pocket 37 formed in the carriage 20, said hook being secured in position in any suitable manner, as by a nut 38.

In operation the carriage 20 is guided in its movements back and forth by the rollers 21 engaging the channels 14 of the lower guide rail, and the upper end of the rod 22 engaging the guide 27, the forward and rearward movement of the rack being limited by the engagement of the rollers 21 with the flanges 17. The spring 35 acts to hold the roller 32 in yielding engagement with one of the notches 29 of the disk 28, said roller 32 also serving as a brake to prevent free rotation of the rod 22 when the roller is moved out of the notch of said disk. As the rack is moved into the case the roller 33 rides up the beveled edge 39 of the cut-away portion 16, thereby preventing the outward swinging of the dog 31 on its pivot, thus rigidly holding the roller 32 into engagement with one of the notches 29. By this arrangement ro-

tation of the disk and the display rack are prevented while they are within the case. When it is desired to withdraw the rack the same will readily slide forward until the carriage 20 engages the forward flange 17. When the parts are in this position the roller 33 reaches the cut away portion 16, whereupon the dog 31 may rock on its pivot. The rod 22 and disk 28 may then be rotated at will, the spring 35 yielding sufficiently to permit the roller 32 to move out of engagement with the notch 29.

Having thus explained the nature of my invention, and described an operative manner of constructing and using the same, although without attempting to set forth all of the forms in which it may be made, or all of the forms of its use, what I claim is:—

1. In a display rack the combination with a case, of a reciprocable carriage, a guide therefor, a rotatable garment supporting member supported by said carriage, and a locking dog normally engaging said garment supporting member, and free to move when the carriage is in its forward position, said guide having means for preventing movement of said dog when the rack is moved backward.

2. In a display rack the combination with a case, of a guide, a reciprocable carriage engaging said guide, a rotatable garment supporting member mounted on said carriage, a locking dog, and means for holding one end of said dog yieldingly in engagement with said guide, the other end of said dog being arranged to engage said guide when the carriage is moved backward, said guide being constructed to permit movement of said dog when said carriage is in its forward position.

3. In a display rack the combination with a case, of a reciprocable carriage, a guide therefor, a rotatable garment supporting member supported by said carriage, a locking dog, and a spring for holding said dog normally in engagement with said garment supporting member, said spring being adapted to yield sufficiently to permit rotation of said garment supporting member when the carriage is in its forward position, said guide being provided with means for preventing movement of said dog when the carriage is moved backward.

4. In a display rack the combination with a case, of a guide, a reciprocable carriage engaging said guide, a rotatable garment supporting member supported by said carriage, a locking dog supported by said carriage, a spring for holding one end of said dog normally in engagement with said garment supporting member, said spring being adapted to yield sufficiently to permit rotation of said garment supporting member when the carriage is in its forward position, and means for engaging the other end of

said dog to prevent movement of the latter when the carriage is in its rearward position.

5. In a display rack the combination with a case, of a reciprocable carriage, a guide therefor, a rotatable garment supporting member supported by said carriage, and a locking dog normally engaging said garment supporting member and free to move when the carriage is in its forward position, said guide being provided with a flange for preventing movement of the dog when the carriage is in its rearward position.

6. In a display rack the combination with a case, of a reciprocable carriage, a guide therefor, a rotatable garment supporting member supported by said carriage, a locking dog supported by said carriage, and a spring for holding one end of said dog normally in engagement with said garment supporting member, said spring being adapted to yield sufficiently to permit rotation of said garment supporting member when the carriage is in its forward position, said guide being provided with a flange for engaging the other end of said dog to prevent movement of the latter when the carriage is in its rearward position.

7. In a display rack the combination with a case, of a reciprocable carriage, a guide therefor, a rotatable garment supporting member supported by said carriage, and a horizontally swinging locking dog mounted on said carriage and normally engaging said garment supporting member, said dog being free to move when the carriage is in its forward position, said guide being provided with a flange adapted to engage said dog to prevent movement thereof when the carriage is in its rearward position.

8. In a display rack the combination with a case, of a reciprocable carriage, a guide therefor, a rotatable garment supporting member supported by said carriage, a locking dog pivoted to said carriage and provided with a lateral hook member, and a spring connected to said hook member and holding one end of said dog normally in engagement with said garment supporting member, said spring being adapted to yield sufficiently to permit rotation of said garment supporting member when the carriage is in its forward position, said guide being provided with means for engaging the other end of said dog to prevent movement thereof when the carriage is in its rearward position.

9. In a display rack the combination with a case, of a reciprocable carriage, a guide therefor, a rotatable garment supporting member mounted on said carriage, and a locking dog for said rotatable member adapted to engage said guide when the carriage is moved backward, whereby the dog is held in locking position, said guide being

constructed to permit yielding movement of said dog when the carriage is in its forward position.

10. In a display rack, the combination with
5 a case, of a reciprocable carriage, a guide rail provided with a central guide for said carriage and a side flange, a rotatable garment supporting member mounted on said carriage, and a locking dog for said rota-
10 table member adapted to engage said flange when the carriage is moved backward where-

by the dog is held in locking position, said flange being provided with an opening to permit yielding movement of said dog when the carriage is in its forward position. 15

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

ANDREW E. MILLER.

Witnesses:

SOL. HIMMEL,

A. MARIE FITZBERGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
