

A. VANDERVELD.
MOVABLE GARMENT SUPPORT.
APPLICATION FILED DEC. 18, 1909.

972,298.

Patented Oct. 11, 1910.

2 SHEETS—SHEET 1.

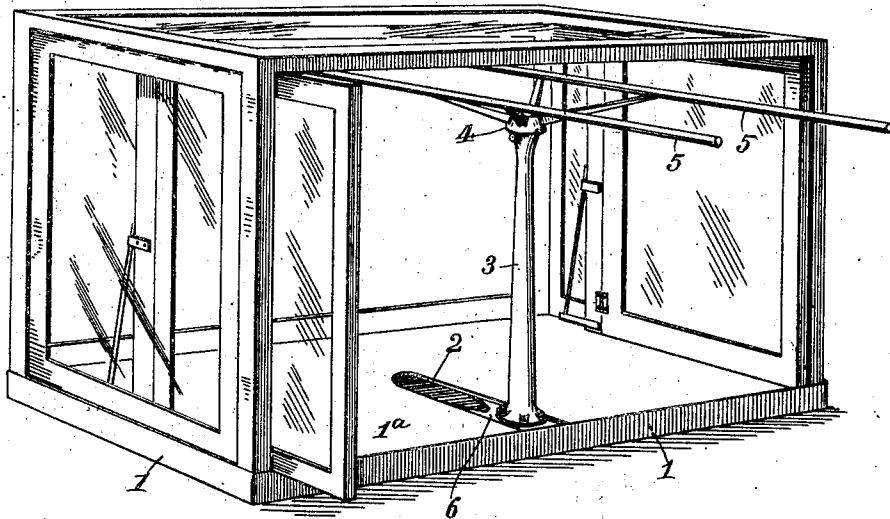


FIG. 1.

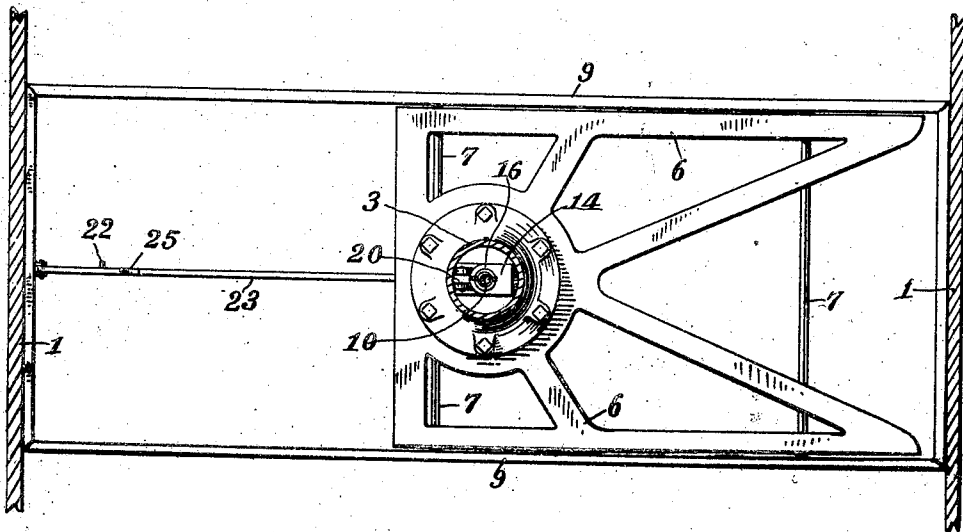


FIG. 2.

Witnesses
H. O. Van Antwerp
Minnie Johnson.

Inventor
ANTHONY VANDERVELD
BY Luther V. Moulton
Attorney

A. VANDERVELD.
MOVABLE GARMENT SUPPORT.
APPLICATION FILED DEC. 18, 1909.

972,298.

Patented Oct. 11, 1910.

2 SHEETS-SHEET 2.

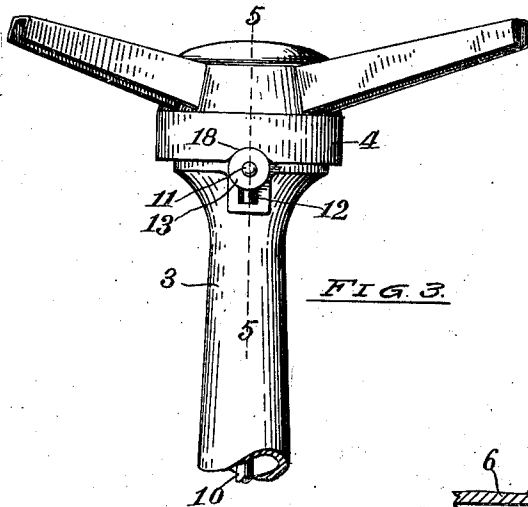


FIG. 3.

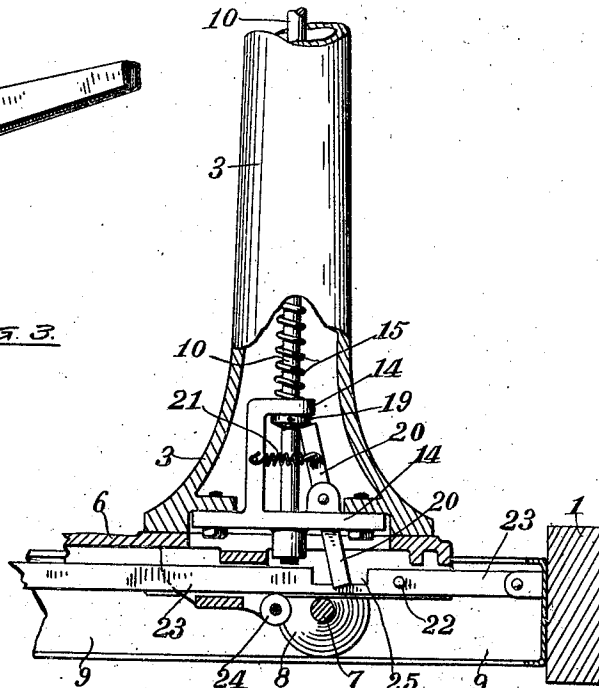


FIG. 4.

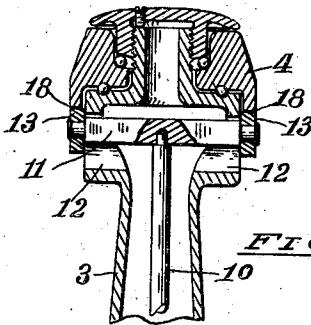


FIG. 5.

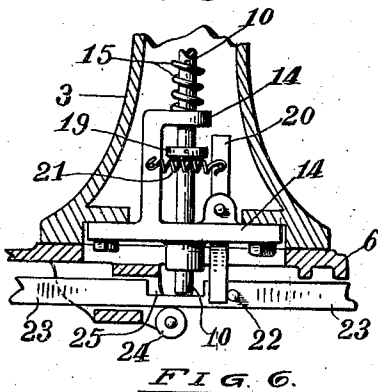


FIG. 6.

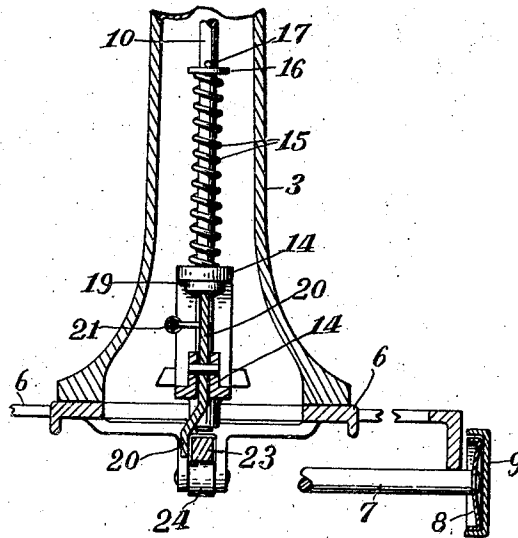


FIG. 7.

Witnesses
H. C. Van Antwerp.
Minnie Johnson.

Inventor
ANTHONY VANDERVELD
By Luther V. Moulton
Attorney

UNITED STATES PATENT OFFICE.

ANTHONY VANDERVELD, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO GRAND RAPIDS SHOW CASE COMPANY, OF GRAND RAPIDS, MICHIGAN, A CORPORATION OF MICHIGAN.

MOVABLE GARMENT-SUPPORT.

972,298.

Specification of Letters Patent.

Patented Oct. 11, 1910.

Application filed December 18, 1909. Serial No. 533,859.

To all whom it may concern:

Be it known that I, ANTHONY VANDERVELD, 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 Movable Garment-Supports; 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 movable garment supports for show cases, wardrobes, and the like, and its object is to provide the same with improved means for automatically locking and releasing the rotary support to prevent the same from accidentally breaking or marring the case, and to provide the device with various new and useful features as 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 view of a device embodying my invention; Fig. 2 a plan view of the carriage mechanism; Fig. 3 an elevation of the top of the column and the spider with portions broken away; Fig. 4 a sectional elevation of the bottom portion of the column and locking mechanism showing the spider locked in position; Fig. 5 a section on the line 5-5 of Fig. 3; Fig. 6 the same as Fig. 4 showing the locking mechanism in position to release the spider; and, Fig. 7 a vertical sectional detail at right angles to Fig. 4.

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

1 is a wardrobe, or show case in which this device is used. This case has a floor 1^a spaced apart from the bottom and provided with a slot 2 extending from near the center of the case to the front of the same. A hollow column 3 is movably supported in the slot 2 and carries on its upper end a rotative garment support, consisting of a spider 4, upon the radiating arms of which are supported bars 5 arranged parallel to each other and spaced apart, on which bars the clothing is hung by any convenient means, not shown.

The column 3 is mounted on a carriage 6, which is supported upon rotative axles 7 having rolling contact with the under side of

the sides of the carriage to avoid friction in moving the latter. Fixed on the respective ends of the axles 7 and outside the carriage, are wheels 8 which traverse the inwardly projecting flanges of the track.

The track is formed of channel bars 9 spaced apart, arranged parallel, and secured in the case.

10 is a rod extending vertically within the axis of the column 3 and carrying at its upper end a cross bar 11. This cross bar is vertically slidable in slots 12 near the top of the column and is provided at its respective ends with rollers 13 journaled on the same.

The lower end of the rod 10 is slidable in a guide 14 and the rod is yieldingly forced upward by means of a spring 15, the lower end of which rests on the guide 14, and the upper end engages a washer 16 fastened to the rod 10 by means of a pin 17.

The rollers 13 engage the lower surface of a downwardly projecting flange on the spider 4 and are held in contact therewith by means of the spring 15. This flange of the spider is provided with recesses 18 adapted to receive the rollers 13, but these recesses are so located that the roller will engage them only when the rods 5 are in the proper position to be moved within the case 1; that is to say, parallel with the front thereof in the device shown.

Near the lower end of the rod 10 is secured a collar or shoulder 19.

When the rod is raised and the rollers 13 are in the recesses 18, the rod is held in raised position by a prop 20, which is pivoted near its middle in the lower part of the guide 14, engages the lower surface of the collar 19, and is held in such engagement by a spring 21. This prevents the rod 10 from being lowered and holds the spider 4 in locked position.

When the carriage is moved to the front of the case, the lower end of the prop 20 engages a pin 22 fixed in the side of a bar 23 arranged beneath the carriage and secured to the front of the case. This pin moves the prop 20 about its pivot, disengages the shoulder 19, and allows the rod 10 to be lowered by rotating the spider 4, the rod 10 being then held up only by the spring 15. When the spider is rotated, the rollers 13 are forced out of the recesses 18, thus lowering the rod 10. The lower end of

this rod now enters a recess 25 in the bar 23. The carriage is thus locked and cannot be moved back into the case until the spider is rotated to the proper position, when the rollers 13 will enter the recesses 18, and the rod 10 will be raised by the spring, thus removing its lower end from the recess 25. A slight backward movement of the column will then release the lower end of the prop 20 from the pin 22, and its upper end will again engage the shoulder 19, thus again locking the spider and preventing it from rotating. The bar 23 is supported by a roller 24 journaled in the under side of the carriage and traversing the bar, whereby the bar will not bind in the carriage and need not extend wholly across the case.

It will be noted that when the carriage is moved back into the case, the rod 10 traverses the upper surface of the bar 23 and cannot be lowered even though the prop fails to hold it up.

What I claim is:—

1. A movable garment support comprising a carriage, a rotary garment support on the carriage, a longitudinal movable rod, separate locking means for the carriage and for the rotary support alternately engaged and disengaged by movement of the rod, and means for automatically operating the rod by movement of the carriage and rotary support.

2. A movable garment support comprising a carriage, a rotary garment support mounted on the carriage, a fixed member below the carriage, said support and member each provided with a locking recess, a longitudinally movable rod carrying a locking member at one end to engage the recess in the rotary support and engaging the recess of the fixed member at the other end, and means for automatically moving the rod by movement of the carriage and support.

3. A movable garment support comprising a carriage, a rotary garment support mounted on the carriage and provided with a recess, a vertically disposed and longitudinally movable rod, a locking member yieldably engaging the said recess, and carried on the rod, a spring yieldingly supporting the rod, a latch detachably supporting the rod, a fixed member beneath the carriage and having a recess to receive the lower end of the rod, means for releasing

the latch, and means for depressing the rod by rotation of the garment support.

4. A movable garment support, comprising a carriage, a hollow column on the carriage, a rotary garment support on the column, a vertically movable rod in the column, means for locking the garment support carried by the rod, a spring yieldingly supporting the rod, and a bar beneath the carriage and having a recess to receive the lower end of the rod when the same is depressed.

5. A movable garment support, comprising a carriage, a hollow column on the carriage, a rotary garment support on the column, a depending flange on the garment support and having a recess in its under side, a locking member vertically movable in the column and yieldably engaging the recess, a rod carrying the locking member and vertically movable in the column, and a bar beneath the carriage having a recess to receive the rod, when the rod is depressed.

6. A movable garment support, comprising a carriage, a hollow column on the carriage and having vertical slots at the top, a rotary garment support on the column and having a depending flange having opposing recesses, a cross bar vertically movable in the slots and having rollers to engage the recesses, a vertically movable rod supporting the cross bar, a spring to support the rod, a bar beneath the carriage and having a recess to receive the end of the rod, a collar on the rod, a pivoted prop to engage the collar and support the rod, and a pin on the bar to engage and release the prop.

7. A movable garment support, comprising a carriage, a hollow column on the carriage, a rotary garment support on the column, locking means engaging and yieldably holding the garment support, a rod vertically movable in the column supporting said locking means and depressed by rotation of the garment support, and means for locking the carriage engaged by the rod, when the rod is depressed.

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

ANTHONY VANDERVELD.

Witnesses:

GEORGIANA CHACE,
MINNIE JOHNSON.