No. 683,356. Patented Sept. 24, 1901.

A. TODD.

DISPLAY RACK.

(Application filed Dec. 27, 1900.)

(No Model.) 3 Sheets—Sheet 1.

Fig. 1.

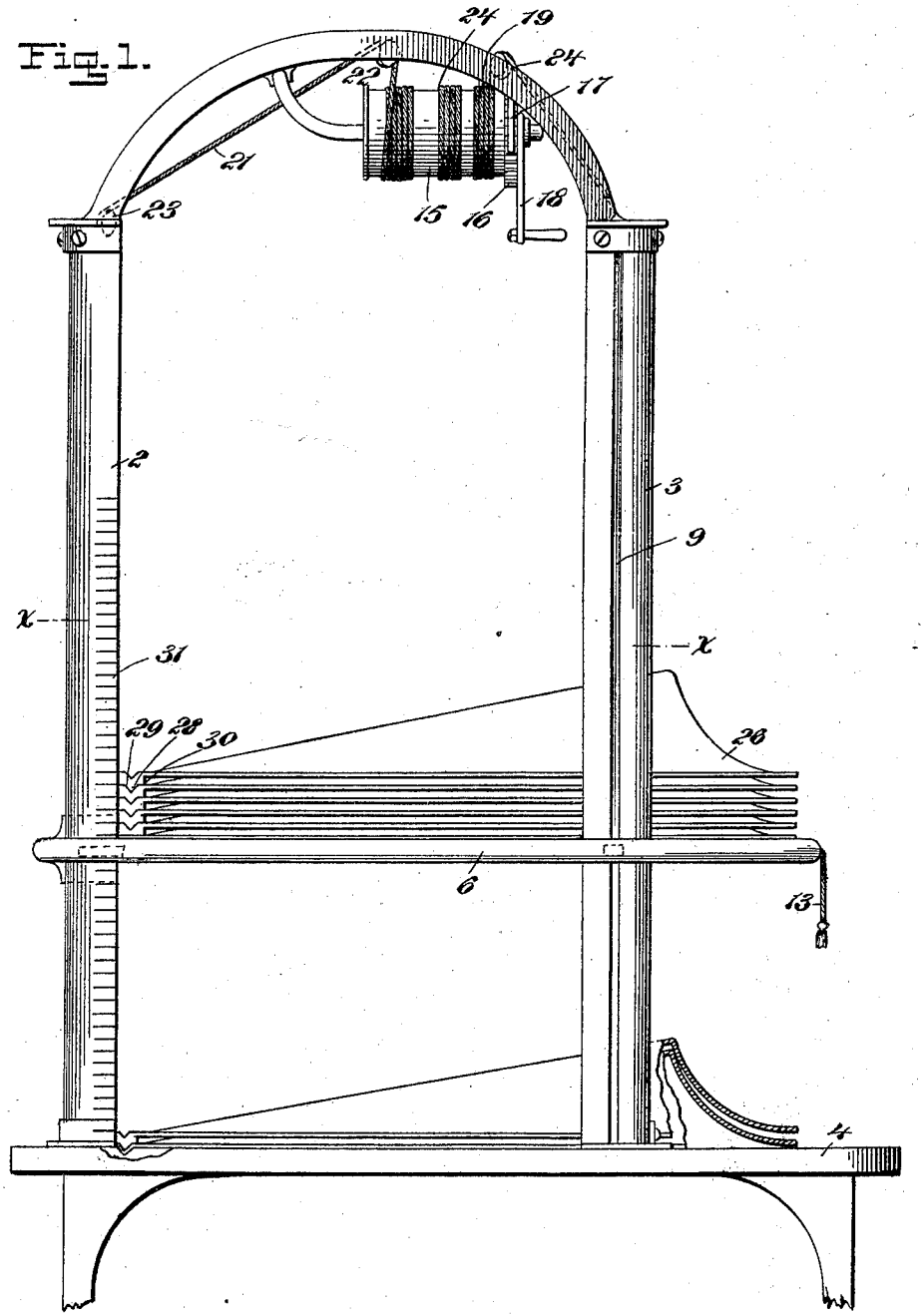

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Fig. 2.

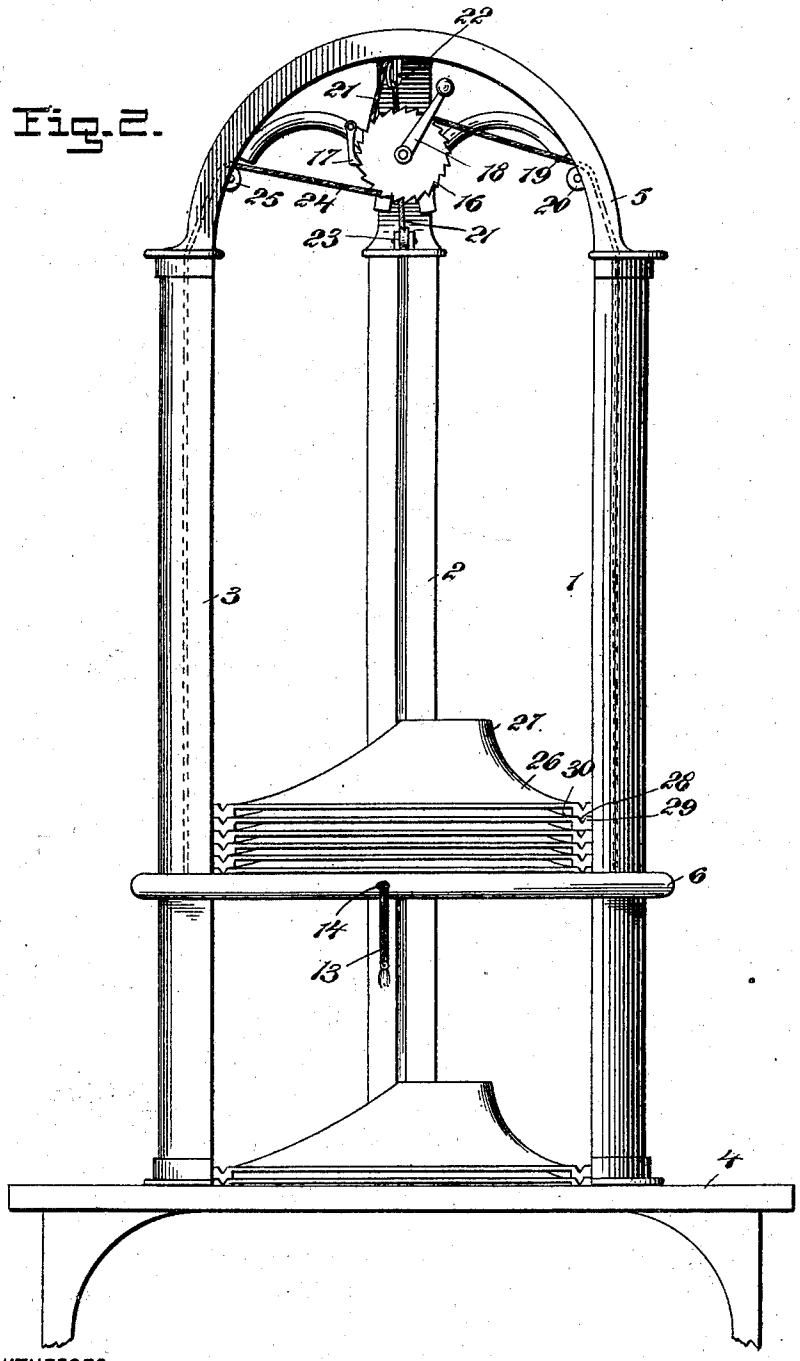

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Fig. 3.

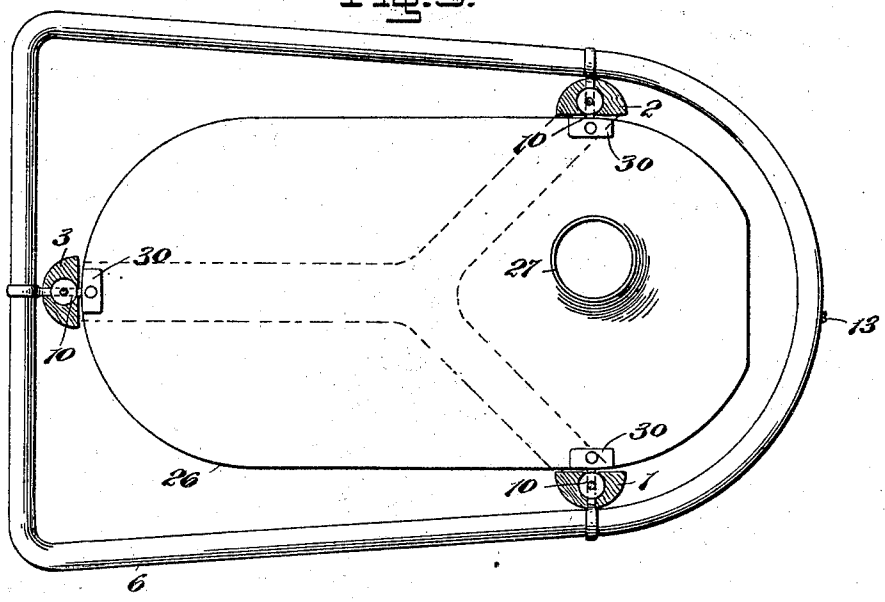


Fig. 4.

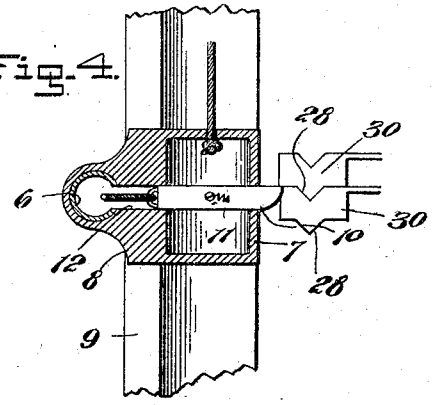
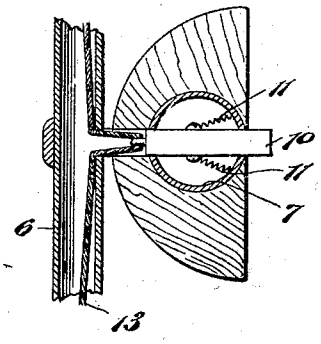


Fig. 5.



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UNITED STATES PATENT OFFICE.

ANDREW TODD, OF PIEDMONT, OHIO.

DISPLAY-RACK.

SPECIFICATION forming part of Letters Patent No. 683,356, dated September 24, 1901.

Application filed December 27, 1900. Serial No. 41,192. (No model.)

To all whom it may concern:

Be it known that I, ANDREW TODD, a citizen of the United States, and a resident of Piedmont, in the county of Harrison and State of Ohio, have invented a new and Improved Display-Rack, of which the following is a full, clear, and exact description.

This invention relates to improvements in racks for displaying and handling garments, such as coats, vests, and the like. In tailor shops and clothing stores it is the usual practice to fold coats with the lining outward and place them in neatly-arranged piles, and when it is desired to remove a coat below the top coat it is taken hold of and drawn out, and by this operation all or nearly all of the other coats in the pile are more or less disarranged.

It is the object of my invention to provide a simple device in which a number of coats may be placed in a pile and close together and any one of which may be removed without disarranging the others in the pile.

I will describe a display-rack embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a display-rack embodying my invention. Fig. 2 is a front elevation thereof. Fig. 3 is a section on the line $x\ x$ of Fig. 1. Fig. 4 is a sectional detail showing a lifting mechanism employed, and Fig. 5 is a section at right angles to Fig. 4.

The rack comprises three standards 1 2 3, made of any suitable material and mounted on a platform 4. These standards are tubular, and, as shown in the drawings, they are half-circular on the outer side. The standards are connected at the top by an upper frame 5. Mounted to move vertically with relation to the standards is a carrier 6, which extends around the outer side of the several standards. Movable vertically in each standard is a boxing 7, which has a shank or web portion 8 extended through a slot 9 in the outer side of the standard, and this block is connected with the carrier 6. Movable in each standard is a bolt 10, which is normally drawn inward or toward the center of the device by means of a spring or springs 11, the inner end of the bolt moving in an opening 12 in the shank portion, and the several bolts are engaged with a rope or cable 13, which passes through the carrier 6. The ends of said rope or cable are carried outward through an opening 14 in the carrier and tied together. Obviously by drawing outward on these ends the several bolts will be simultaneously moved inward, and upon relieving said ropes the springs 11 will move them in the opposite direction.

Arranged in the upper frame 5 is a drum 15, having a ratchet-wheel 16 at one end engaged by a pawl 17, and on the shaft of this drum is a crank-handle 18. From the drum 15 a rope or cable 19 extends over a pulley 20 in the frame 5 and thence down through the standard 1 to a connection with the boxing 7 therein. A rope or cable 21 extends from said drum over a pulley 22 and a pulley 23, then through the standard 2, and is connected with the boxing therein. Another rope or cable 24 passes over a pulley 25 in the upper frame and thence down through the standard 3 to a connection with the boxing therein.

Arranged within the frame comprising the standards is a series of pallets or forms 26. The several pallets or forms are independent one of another, and they are shaped somewhat to conform to the shape of a folded coat as usually displayed—that is, each one has at one end an upwardly-extended circular portion 27 to engage in the arm portion or shoulder portion of the garment. The several pallets or forms are shown as substantially oval, and they may be made of any suitable material—such, for instance, as hard paper, wood, thin metal, or the like. When goods are not on the pallets or supports, the latter are prevented from lateral or endwise movement one relatively to the other by projections 28 on the lower side of each pallet or form adapted to engage with a notch 29, formed in the pallet or form below it. These projections 28 are formed on blocks 30, which hold the pallets slightly separated one from another, so that the bolts 10 may pass between the same.

Any one of the standards may be provided with a scale 31, numbered in accordance with the pallets or forms or with the garments

thereon. This is designed to indicate the proper position for the carrier to engage with a pallet directly over the garment to be drawn out or displayed.

In operation when it is desired to remove or display a coat located on a pallet below the upper one the several bolts 10 are to be drawn outward by means of the rope or cable 13 and the pawl 17 released from the ratchet-wheel, when the carrier will move downward and will be stopped opposite the pallet designed to be engaged by the bolt. Then upon releasing the rope or cable 13 the bolts will pass underneath the pallet, so that by turning the drum 15 the pallet engaged and the several ones above it will be elevated from the coat designed to be removed or displayed and the parts will be held in their elevated position by the pawl 17 engaging with the ratchet-wheel.

To rearrange the device in normal adjustment after a garment has been displayed, it may be replaced if not sold, and the pallets which were held elevated may be lowered by a release of the drum 15 and its reversed rotation by manipulation of the crank-handle 18, or the pallets may be permitted to descend by gravity.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A display-rack, comprising standards, a carrier movable relatively to the standards and engaging around the same, means for moving said carrier, forms designed to be raised and lowered by the carrier, and spring-held devices on the carrier for engaging with the forms, substantially as specified.

2. A display-rack, comprising standards, a carrier passing around the standards and movable vertically relatively thereto, a winding-drum, connections between said drum and the carrier, a series of pallets or forms arranged between the standards, and devices mounted on the carrier for engaging said pallets or forms, substantially as specified.

3. A display-rack, comprising tubular standards, a carrier surrounding the standards and movable vertically relatively thereto, boxings in the standards and connected with the carrier, bolts mounted to move in said boxings, means for simultaneously moving all of said bolts outward, means for moving them inward, and a series of pallets or forms designed to be engaged by said bolts, substantially as specified.

4. A display-rack, comprising tubular standards, blocks or boxings movable vertically in said standards, a carrier having connection with said blocks or boxings, bolts movable transversely in the blocks or boxings, a rope or cable connecting with the inner ends of the several bolts and having its ends extended outward through an opening in the carrier, the main portion of said rope or cable passing through the carrier, devices designed to be engaged by the bolts, and means for raising and lowering the carrier, substantially as specified.

5. A display-rack, comprising standards, a carrier extending around said standards and movable vertically with relation thereto, pallets arranged to move between the standards, engaging bolts for the pallets carried by the carrier, means for operating said bolts, and means for raising and lowering the carrier, substantially as specified.

6. A display-rack, comprising three standards, pallets or forms arranged between the standards, a carrier having devices for engaging with the pallets or forms, a drum in the upper portion of the device, and cables or ropes extending from said drum over pulleys and connecting with the carrier, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANDREW TODD.

Witnesses:
EVERARD BOLTON MARSHALL,
ALFRED H. DAVIS.