F. P. MURPHY.

DISPLAY RACK.

APPLICATION FILED MAY 3, 1912.

1,049,133.

Patented Dec. 31, 1912.

3 SHEETS—SHEET 1.

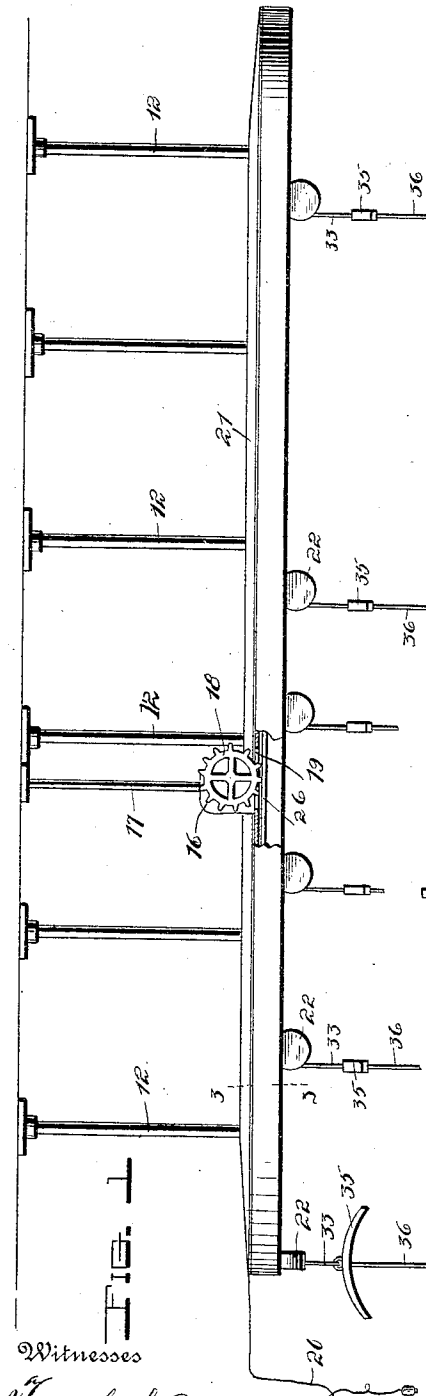

FIG. 1

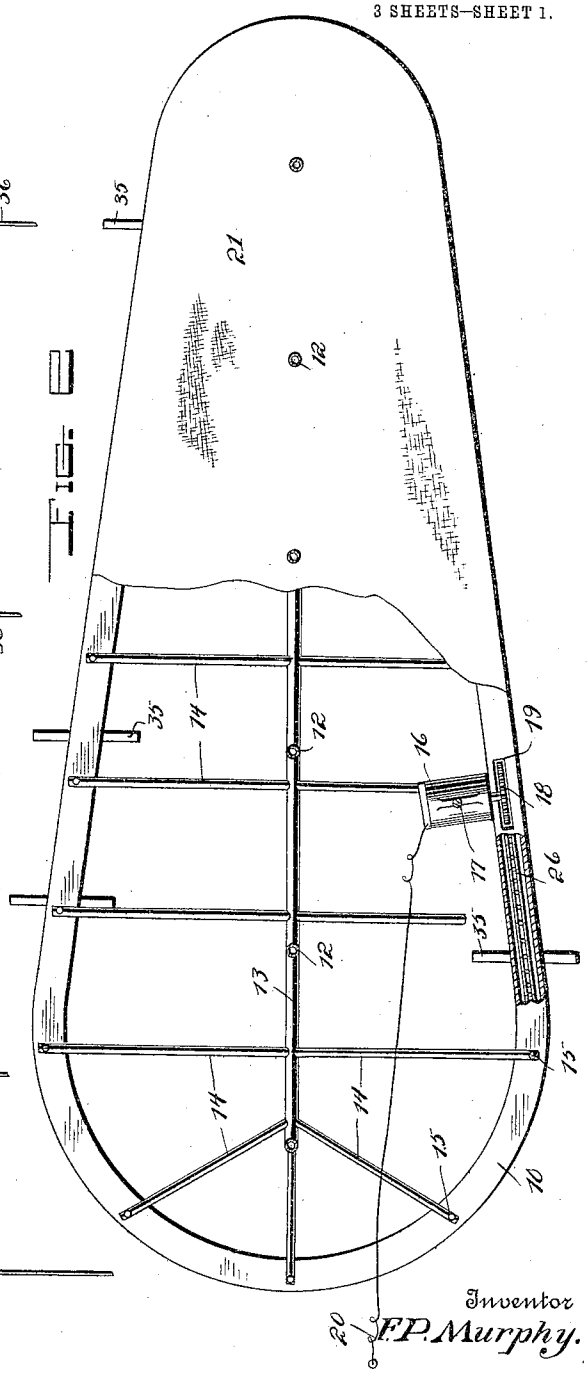

FIG. 2

Witnesses

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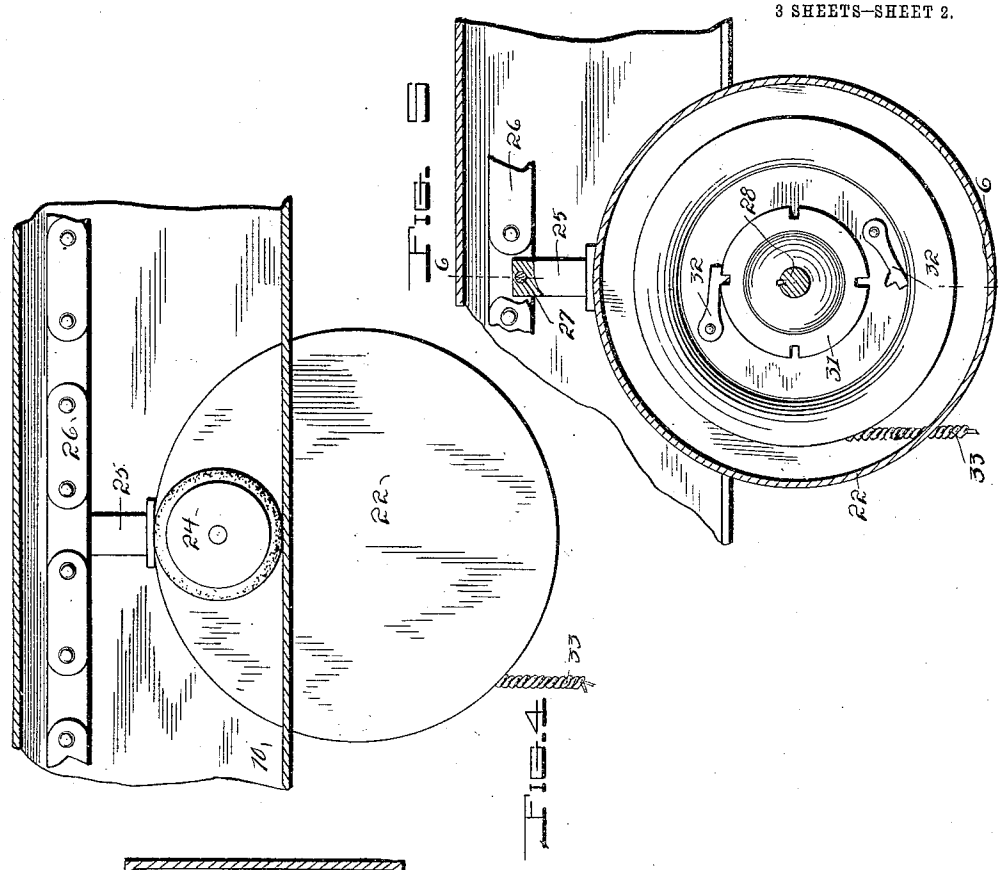
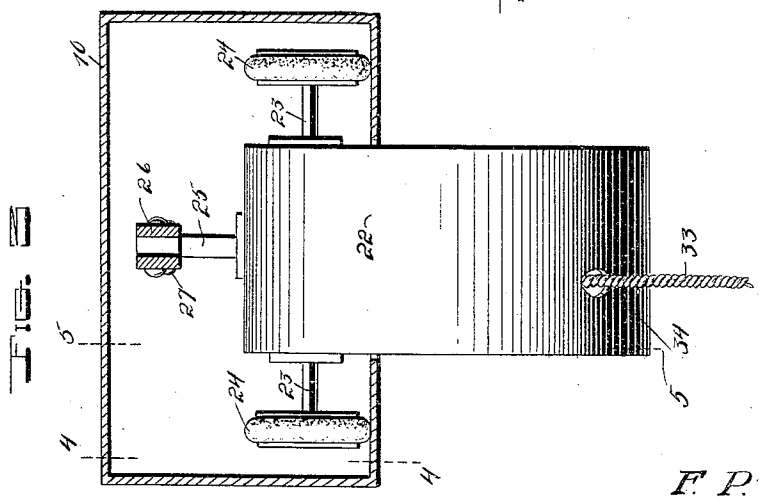
3 SHEETS—SHEET 2.





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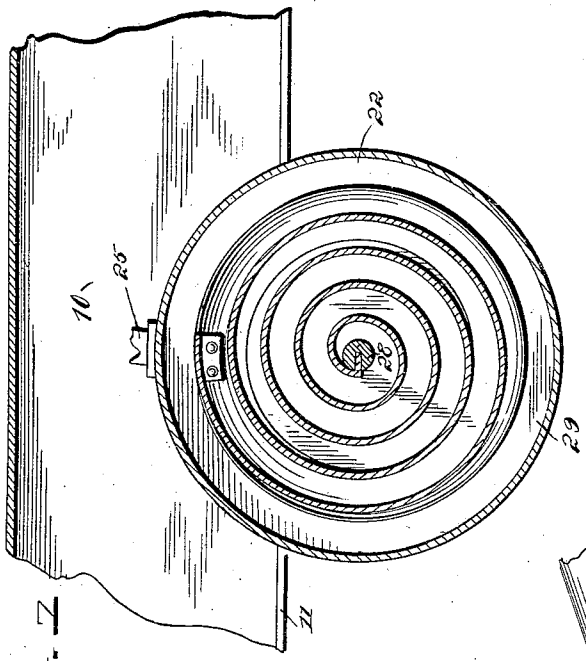

Fig. 7

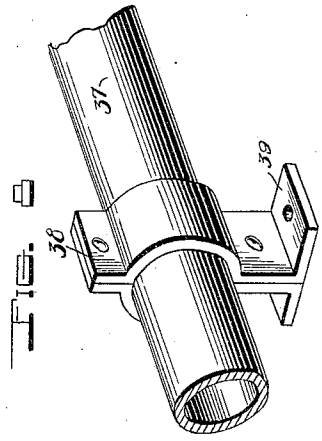

Fig. 8

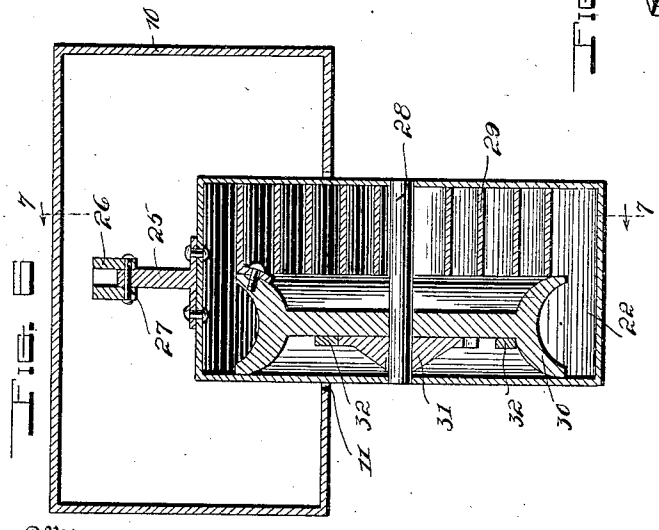

Fig. 6

Witnesses

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UNITED STATES PATENT OFFICE.

FRANCIS P. MURPHY, OF PRINCE ALBERT, SASKATCHEWAN, CANADA.

DISPLAY-RACK.

1,049,133. Specification of Letters Patent. Patented Dec. 31, 1912.

Application filed May 3, 1912. Serial No. 694,808.

To all whom it may concern:

Be it known that I, FRANCIS P. MURPHY, a citizen of the United States, residing at Prince Albert, in the Province of Saskatchewan, Dominion of Canada, have invented certain new and useful Improvements in 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.

This invention relates to display racks for displaying men's suits or the like and has for an object to provide a supporting endless track upon which the suit hangers may be made to advance continuously so that the suits may be brought in succession past the customer for inspection, the track being carried underneath a canopy so that dust and the like will be prevented from settling upon the clothing.

A further object of the invention is to provide a novel spring controlled grooved wheel which rides upon the track and is equipped with a cord which carries the coat hanger, this cord forming means for pulling down any particular suit a sufficient distance from the track to enable the suit to be removed for inspection, the controlling spring immediately returning the coat hanger to its initial position upon removal of the suit.

With the above objects in view the invention consists of certain novel details of construction and combination of parts hereinafter fully described and claimed, it being understood that various modifications may be made in the minor details of construction within the scope of the appended claim.

In the accompanying drawings forming part of this specification:—Figure 1 is a side elevation of the device. Fig. 2 is a plan view of the device. Fig. 3 is an enlarged cross sectional view taken on the line 3—3 Fig. 1. Fig. 4 is a cross sectional view taken on the line 4—4 Fig. 3. Fig. 5 is a cross sectional view taken on the line 5—5 Fig. 3. Fig. 6 is a cross sectional view taken on the line 6—6 Fig. 5. Fig. 7 is a cross sectional view taken on the line 7—7 Fig. 6. Fig. 8 is a detail perspective view showing a modified form of support and attaching means.

Referring now to the drawings in which like characters of reference designate similar parts, 10 designates an oval track which is substantially square in cross section and is provided in the bottom with a continuous slot 11. A plurality of hangers 12 of pipe are connected at the lower end by a pipe 13 which extends longitudinally of the track and is equipped with a plurality of laterally extending pipes 14 which are terminally connected to the track by bolts 15 or otherwise. A small electric motor 16 is supported by a hanger 17 and is provided with a gear 18 which projects into an opening 19 formed in the top of the track. An operating means 20 for controlling the motor terminates within convenient reach of the operator. The hangers suspend the track at a suitable distance below the ceiling for elevating the suits to within convenient reach of the salesman, and a fabric covering 21 is spread over the frame work above described to prevent dust settling upon the suits.

Projecting into the continuous slot in the bottom of the track is a plurality of suit displaying devices each comprising a cylindrical casing 22 having lugs 23 projecting from the opposite sides and equipped with supporting wheels 24 which ride on the bottom of the track. Each casing is equipped with an upstanding lug 25 which projects into one of the links of an endless sprocket chain 26 and is secured to the link by a pin 27. The sprocket chain is thus supported upon and fixed to all of the casings, and furthermore the gear of the electric motor meshes with the sprocket chain and advances all of the casings uniformly along the track during actuation of the motor.

A shaft 28 is terminally fixed in the sides of each casing and a coil spring 29 is fixed at one end to the shaft and at the opposite end to a grooved pulley 30 which is mounted to idle on the shaft, and fixed to the shaft is a ratchet disk 31, this disk being operatively engaged by gravity pawls 32 arranged upon the grooved pulley on opposite sides of the disk, one of these pawls being at all times in operative engagement with the ratchet wheel to lock the pulley for simultaneous rotation with the shaft. A cord 33 is fixed at one end to the pulley and wound thereupon, the cord being trained through an opening 34 formed in the casing and being terminally equipped with a coat hanger 35 which in turn is equipped with a depending cord 36. Upon the cord 36 being manually pulled downward the grooved pulley is rotated to unwind the

cord 33 and lower the suit suspended upon the coat-hanger for inspection, the spring 29 immediately returning the coat hanger to initial position upon removal of the garments. The operative pawl may be manually released to permit of any desired length of the cord being drawn from the pulley in order to permit of the suit hanger being normally spaced at such a distance from the track as to suspend the garment at any desired height above the floor.

In Fig. 8 is shown the fragmentary portion of a stationary casing supporting means including a pipe 37 upon which is fixed a split clamping ring 38 having at the lower end a laterally directed foot 39 which may be riveted or otherwise secured to the top of a casing such as above described. The pipe may be of any desired length and may be supported from the ceiling or other suitable support in any preferred manner and is designed to provide a less expensive means for mounting the casings than the track and other mechanisms above described.

What is claimed, is:—

A display rack including a track, a plurality of casings mounted for movement thereupon, means for simultaneously moving said casings uniformly, a spring controlled grooved pulley in each casing, a cord secured to and wound upon said pulley and projecting through said casing, and garment supporting means carried by said cord.

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

FRANCIS P. MURPHY.

Witnesses:

J. McMillan,

S. J. Collins.