

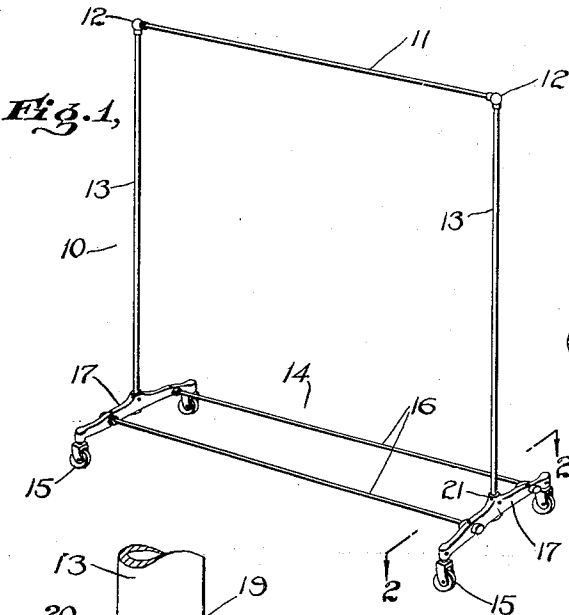
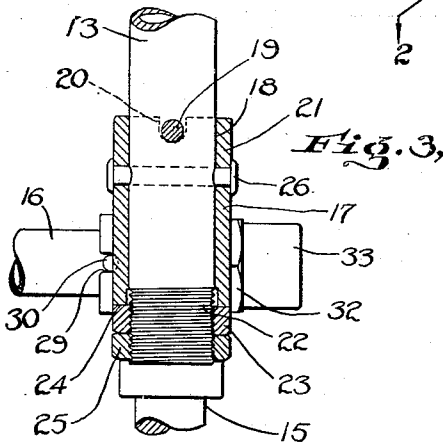
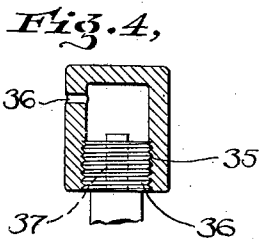
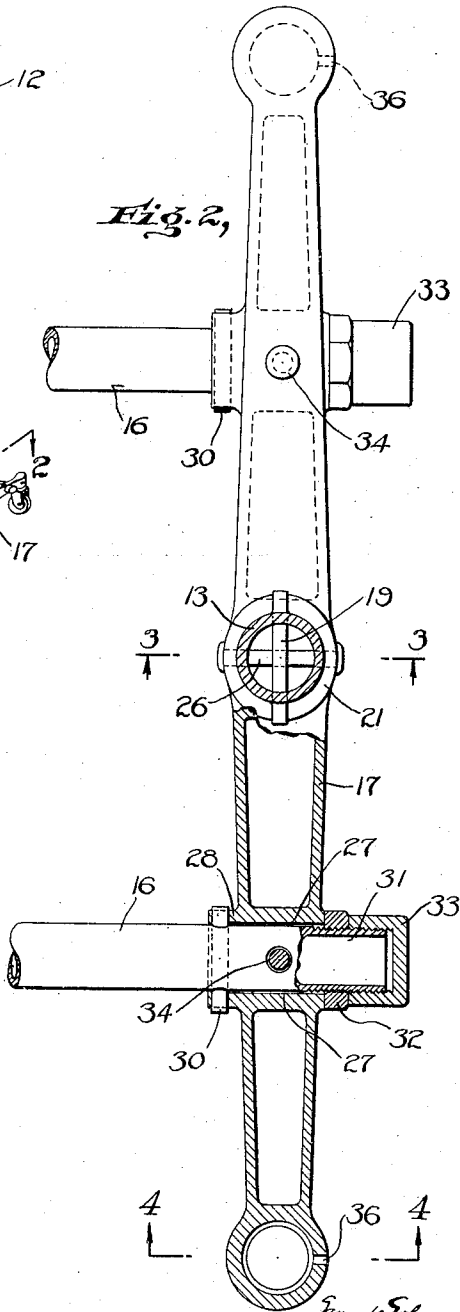
April 8, 1930.

S. SOLOMON ET AL

1,753,725

RACK FOR GARMENTS AND THE LIKE

Filed March 7, 1928



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## UNITED STATES PATENT OFFICE

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## RACK FOR GARMENTS AND THE LIKE

Application filed March 7, 1928. Serial No. 259,633.

This invention relates to racks for clothing or other articles.

An object of the invention is the provision of a frame structure made of pipes or rods so constructed as to form an absolutely rigid, durable frame-work, which shall be free from the disadvantages of twisting or bending and otherwise becoming defective under heavy strains, or in being transported from place to place.

Another object of the invention is to provide a device of the character described, which can be made of considerable size to support a large number of garments, or other articles, and yet be readily moved about on the floor, which is inexpensive to make, and practical and efficient to a high degree.

A further object of the invention is to provide means for connecting together elements of a structure of the character described, which shall be of neat, compact and simplified character, and permit rapidity and ease in assembling.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawing, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is a perspective view of a garment supporting device embodying the invention;

Fig. 2 is an enlarged fragmentary plan view of the same with parts in section on line 2—2 of Fig. 1;

Fig. 3 is a fragmentary sectional view taken on line 3—3 of Fig. 2; and

Fig. 4 is a sectional view of a detail of the invention.

Referring in detail to the drawing, 10 denotes a garment supporting device embodying the invention. Said device comprises a horizontal pipe 11 connected by angle couplings 12 to upright pipes 13. The latter are

mounted on a supporting frame 14 which rests on casters 15.

The supporting frame 14 comprises a plurality of parallel, horizontal pipes 16, symmetrically disposed at the sides of the pipes 13, and in parallel relation to pipe 11. Brackets or bars 17, which may be solid or made as hollow castings, extend at right angles to pipes 16, connecting same together, and likewise engaging the pipes 13, and the casters 15. The frame 14 is thus of strong substantially rectangular construction.

Improved means are provided for connecting the pipes 13 and 16 to the bars 17, so as to provide for a high degree of rigidity of the frame 14, and to eliminate possible twisting of same, such as usually occurs in structures made of pipe, and which in a device of the character herein referred to, prevents all the casters from resting on the floor. The improved method whereby said means is made effective consists in slidably engaging a pipe to a bar 17, but against rotation relative to said bar, and then locking and pinning said pipe rigidly to said bar against sliding movement, as will be more particularly described hereinafter.

Each bar 17 is provided with a vertical through hole 18 to slidably receive a pipe 13. Each pipe 13 has an abutment pin 19 extending therethrough so that the projecting ends of said pin will be received in open ended slots 20 formed in a wall portion 21 of hole 18. The lower end of the pipe 13 is threaded as at 22 to be engaged by a securing nut 23, which abuts against bottom 24 of the wall of opening 18. A lock nut 25 prevents the securing nut from working loose due to vibration, and the like jarring action. A pin or rivet 26 extending through the pipe and bar 17 at right angles to the pin 19 and transversely to said bar, locks the pipe rigidly to said bar, and prevents any looseness that may result from a nut working free, or weakening and elongation of the pipe at its point of materially reduced cross-sectional area at thread 22. It will be noted that threads 22 do not carry any weight, but that the load carried by pipes 13 is borne wholly by pin 19 and rivet 26.

The bars 17 are also each provided with a pair of horizontal through holes 27 to slidably receive pipes 16, and have inward extending wall portions 28 formed with open ended slots 29 to receive the projecting ends of abutment pins 30 that pass through said pipes. The ends of said pipes are threaded at 31 to engage securing nuts 32 and lock nuts 33 made in the form of caps to house the ends of said pipes. Rivets or pins 34 extend at right angles to pins 30, and vertically through pipes 16 and bar 17.

The extreme ends of the bars 17 are threaded at 35 to engage the casters 15, and lubricating holes 36 are provided through which oil may be supplied to insure easy rotation of the swivel pins 37 of the casters.

To secure any of the pipes 13 or 16 to a bar 17, said pipe is caused to slide into the proper opening 18 or 27, and with its pin engaged in the slotted portion at said hole. Thus, rotating of said pipe is prevented. The nuts are then conveniently threaded onto said pipe, as hereinbefore described, and tightened, so as to draw said pin securely into said slots. Holes are then drilled for the reception of the rivets, and when these are headed over, the pipe is rigidly engaged against any movement whatsoever.

By the means and method herein disclosed, it is possible to effectively connect any pipe or rod to a bracket, support, anchor member, or other device. In the particular construction shown in the drawing, made a part of this specification, the invention is seen to be embodied in a supporting device for garments, or the like. However, it is to be understood that the scope of the invention is not to be limited to the construction shown.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:—

1. In a clothes rack of the character described, in combination, a horizontal supporting member, a plurality of upright members supporting said member and a base frame on which said upright members are mounted, said frame comprising a plurality of bars each having a vertical tubular opening for non-rotatably receiving the bottom end portions of said upright members, said bars being provided with spaced, aligned, horizontal bores and a plurality of horizontal rods

having end portions extending thru said horizontal bores, each of the portions of said upright members and horizontal bars extending thru said bores being provided with a threaded end portion, and a projection adjacent said end portion, said bars being provided with notches for receiving said projections.

2. In a clothes rack of the character described, in combination, a horizontal supporting member, a plurality of upright members supporting said member and a base frame on which said upright members are mounted, said frame comprising a plurality of bars each having a vertical tubular opening for non-rotatably receiving the bottom end portions of said upright members, said bars being provided with spaced, aligned, horizontal bores and a plurality of horizontal rods having end portions extending thru said horizontal bores, each of the portions of said upright members and horizontal bars extending thru said bores being provided with a threaded end portion, a projection adjacent said end portion, said bars being provided with notches for receiving said projections, and a nut member received on each of said threaded end portions for drawing said projections tightly against said bars.

3. A device of the character set forth, comprising a frame, said frame including a plurality of rod-like members, cross-bars connecting said members together, each of said members having threaded end portions, and abutment means adjacent to said end portions, said bars having through openings to receive said end portions, and notches in the walls of said openings adapted to receive said abutment means upon insertion of said portions through said openings, nuts on a side of the bars opposite to said abutment means to draw same tightly into said slots, said abutment means preventing rotation of said rod-like members relative to said bars, and means for relieving said threaded portions of strain, comprising pin members extending through adjacent portions of said rods and bars.

4. In a clothes rack of the character described, in combination, a horizontal supporting member, a plurality of upright members supporting said member and a base frame on which said upright members are mounted, said frame comprising a plurality of bars having vertical bores for receiving the bottom end portions of said upright members, said bars being provided with spaced, aligned, horizontal bores, a plurality of horizontal rods having end portions extending thru said horizontal bores, each of the portions of said upright members and horizontal bars extending thru said bores being provided with a threaded end portion, and a projection adjacent said end portion, said bars being provided with notches for receiving

said projections, and a nut member received on each of said threaded end portions for drawing said projections tightly against said bars, and means for relieving the strain of said threaded end portions, said means comprising a pin member extending thru adjacent portions of said bars and the portions of said rods and upright members extending thru said bores.

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10 5. In a clothes rack of the character described, in combination, a horizontal supporting member and a pair of upright members supporting said horizontal member, a base frame for said upright members comprising  
15 a plurality of horizontal rods and a plurality of cross bars secured to the end portions of said rods and upright members, said bars being hollow and provided with spaced walls and integral cylindrical walls interconnecting  
20 said spaced walls forming thru openings for receiving said end portions.

6. In a clothes rack of the character described, in combination, a horizontal supporting member and a pair of upright members  
25 supporting said horizontal member, a base frame for said upright members comprising a plurality of horizontal rods and a plurality of cross bars secured to the end portions of said rods and upright members, said bars being  
30 hollow and provided with cylindrical walls forming through openings for receiving said end portions, said end portions being threaded, nuts on said threaded portions and means for relieving strain from said  
35 threaded portions, said means comprising pins extending through adjacent portions of said cylindrical walls and end portions.

7. In a clothes rack of the character described, in combination, a horizontal supporting member and a pair of upright members  
40 supporting said horizontal member, a base frame for said upright members comprising a plurality of horizontal rods and a plurality of cross bars secured to the end portions of said rods and said upright members, said  
45 bars being hollow and provided with cylindrical walls forming through openings for receiving said end portions, projections on said end portions, said bars being formed  
50 with notches receiving said projections, said end portions being threaded, nuts on said threaded end portions and means for relieving strain from said threaded portions, said  
55 means comprising pins extending through adjacent portions of said cylindrical walls and end portions.

In testimony whereof we affix our signatures.

SAMUEL SOLOMON.  
LOUIS LEVINE.