R. E. McKAY.

FOLDING DISPLAY RACK.

APPLICATION FILED OCT. 12, 1908.

928,533. Patented July 20, 1909.

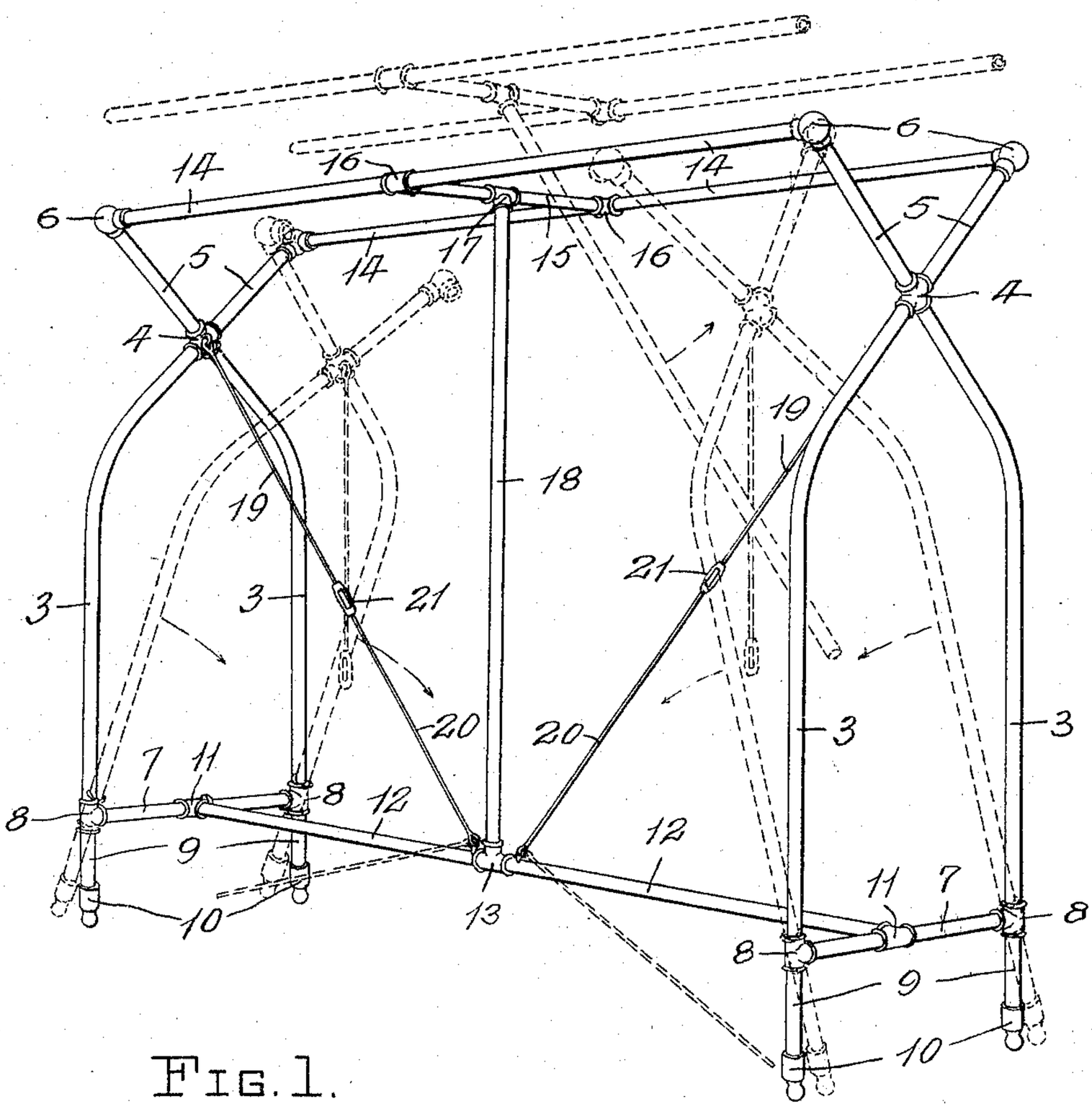

FIG. 1.

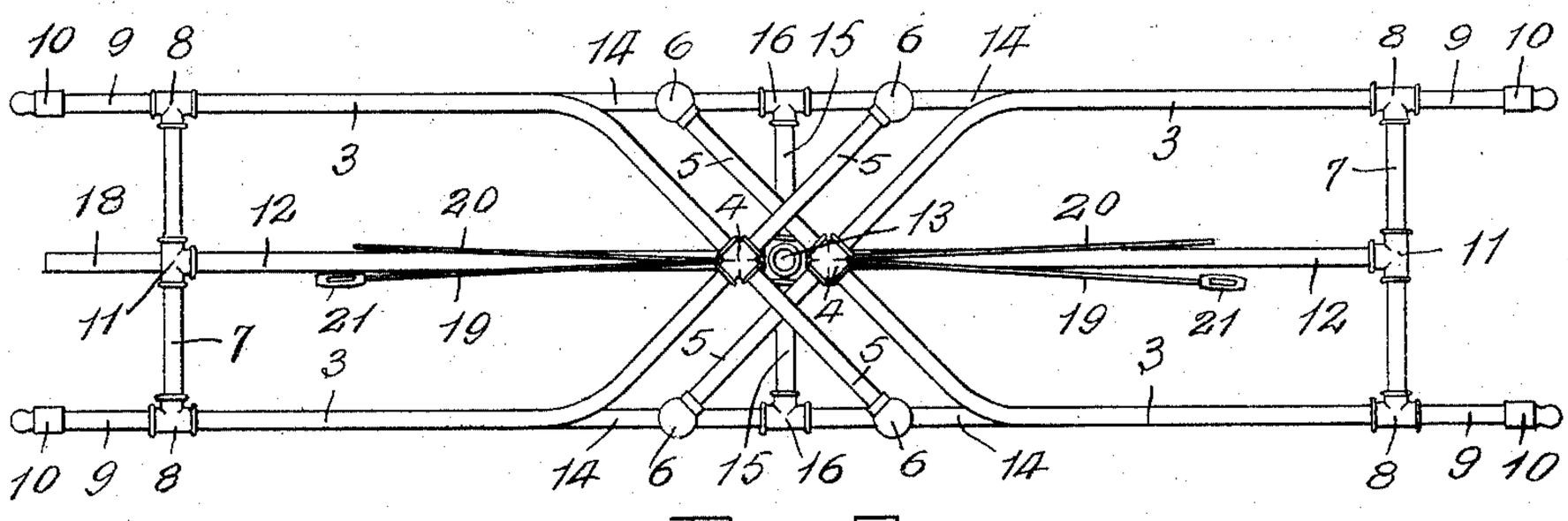

FIG. 2.

WITNESSES

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FOLDING DISPLAY-RACK.

No. 928,533. Specification of Letters Patent. Patented July 20, 1909.

Application filed October 12, 1908. Serial No. 457,200.

To all whom it may concern:

Be it known that I, RUDOLPH EDWARD McKAY, a resident of the town of New Glasgow, in the Province of Nova Scotia and Dominion of Canada, have invented certain new and useful Improvements in Folding Display-Racks, and do hereby declare that the following is a full, clear, and exact description of same.

This invention relates to improvements in display fixtures and the object is to provide a simple and inexpensive device for the display of coats or other garments, which may be quickly and readily folded into small compass when not in use.

To accomplish the above object, I provide a pair of vertical end members hinged near the bottom to a rigid brace. The upper extremities of the end members engage a pair of parallel bars held together by a central horizontal brace to which is hinged a vertical brace adapted to engage the bottom brace. When erected, the device is locked together by a pair of diagonal rods extending upwardly from the center of the bottom brace.

In the drawings which illustrate my invention:—Figure 1 is a perspective view of the device erected in operative form and shows, in dotted lines, the manner in which the device folds. Fig. 2 is a plan view of the device folded for storage or shipping.

In the above defined figures, 3 designates the legs of the device which converge at the top and are united by the crosses 4. Arms 5 extend upwardly from the crosses, continuing in the direction of the converging legs, and terminate in globe elbows 6. The lower extremities of each pair of legs are united to cross bars 7 by tees 8 into which the feet 9 of the fixture are screwed. Each foot 9 is provided with a suitable caster 10, preferably ball bearing. The cross bars 7 pass at their centers through tees 11 in which they are free to oscillate, thus forming a hinge. A bottom brace 12 is screwed into the tees 11 and is provided at its center with a tee 13. A pair of top bars 14, parallel with the bottom brace, are slipped into the globe elbows 6. The top bars are united at their centers by a cross bar 15 secured thereto by tees 16. In the center of the cross bar 15 is a loosely mounted tee 17 from which depends the center brace 18 which is adapted, at its lower extremity, to be inserted in the tee 13 on the bottom brace 12. As the tee 17 is loose on the cross bar 15, the brace 18 is hinged thereto and may be swung parallel with the top bars 14. Rods 19 are attached to the crosses 4 and corresponding rods 20 to the bottom brace adjacent the center tee 13. The rods 19 and 20 are connected by means of turn buckles 21.

Supposing the device to be assembled as shown in full lines in Fig. 1. To fold the fixture for storage or shipping, the turn buckles 21 are unscrewed, disconnecting the rods 19 and 20. The end members are now moved outwardly at the top so that the extremities of the top bars 14 slip out of the globe elbows 6. The top bars are now raised so that the lower extremity of the center brace 18 slips out of the tee 13. The brace 18 may now be swung parallel with the top bars, which action is indicated in dotted lines in Fig. 1. The end members are now moved inwardly at the top, as indicated in Fig. 1, the cross bars rotating in the tees 11, until the end members lie flat and approximately parallel with the bottom brace 12, as shown in Fig. 2. The top bars with the folded center brace may now be placed upon or beneath the folded frame and the whole packed as desired, the rods 19 and 20 lying between the other members of the fixture. To erect the device, this process is reversed, the end members are raised, the top bars and center brace slipped into position, and the whole structure locked firmly together by connecting the rods 19 and 20 by means of the turn buckles.

It will be obvious that the fixture above disclosed will be inexpensively and easily manufactured, since, with the exception of the rods 19 and 20, it may be built entirely of pipe and standard pipe fittings. It will be seen that the device may be quickly and readily folded into small space for shipping or storage and may with equal facility be assembled for use. Other advantages will be apparent to those conversant with the manufacture and use of this class of device.

Having thus described my invention, what I claim is:—

1. In a display fixture, a brace, a pair of end members hinged to the extremities of said brace, a pair of top bars maintaining said end members apart at their upper extremities, a connecting member between said top bars, stays maintaining said end members and top bars in engagement and means for folding the end members and top bars to lie in parallel relation to said brace.

2. In a display fixture, a horizontal brace, an end member hinged to each extremity of said brace, a pair of top bars maintaining the upper extremities of said end members apart, a bar connecting said top bars, a vertical brace hinged to said connecting bar and engaging the center of said horizontal brace and stays holding said end members and top bars and said vertical and horizontal braces in engagement.

3. In a display fixture, a horizontal brace, an end member hinged adjacent the bottom to each extremity of said brace, a pair of top bars maintaining the upper extremities of said end members apart, a connecting bar between said top members, a vertical brace hinged to said connecting bar and engaging the center of said horizontal brace, stays attached adjacent the top of said end members, stays attached adjacent the center of said horizontal brace, and turn buckles connecting said stays whereby all the members are held in engagement.

4. In a folding display fixture, a horizontal brace, a pair of hinged end members adapted to fold inwardly over said brace, a pair of removable top bars normally engaging the upper extremities of said end members, a vertical brace hinged between said top bars and adapted normally to engage the center of said horizontal brace, said top bars and vertical brace adapted to lie flat on said horizontal brace, and end members, and stays adapted to lock all of said members in engagement.

5. In a display fixture, a horizontal brace, a cross bar revolubly mounted at each end of said brace, a pair of intersecting legs carried by each cross bar, sockets in the upper extremities of said legs, bars engaging said sockets, and stays extending from the intersections of said legs to the center of said horizontal brace.

6. In a display fixture, a horizontal brace, a cross bar revolubly mounted at each end of said brace, a socket at the center of said brace, a pair of intersecting legs fixed to each cross bar, sockets in the upper extremities of said legs, bars parallel with the horizontal brace engaging said sockets, a connecting bar between said bars, a vertical brace hinged to said connecting bar and engaging the socket on said horizontal brace, stays extending from the intersections of said legs to the center of the horizontal brace, and turn buckles for connecting and disconnecting said stays.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

RUDOLPH EDWARD McKAY.

Witnesses:

H. A. WOLFE,

ROB E. MACKAY.