

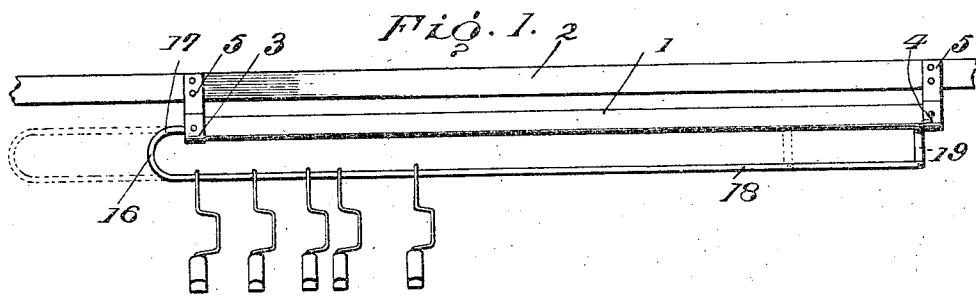
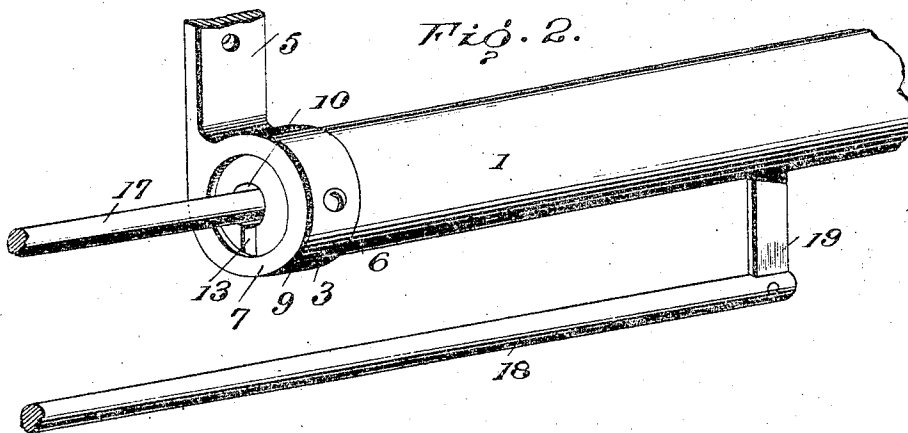
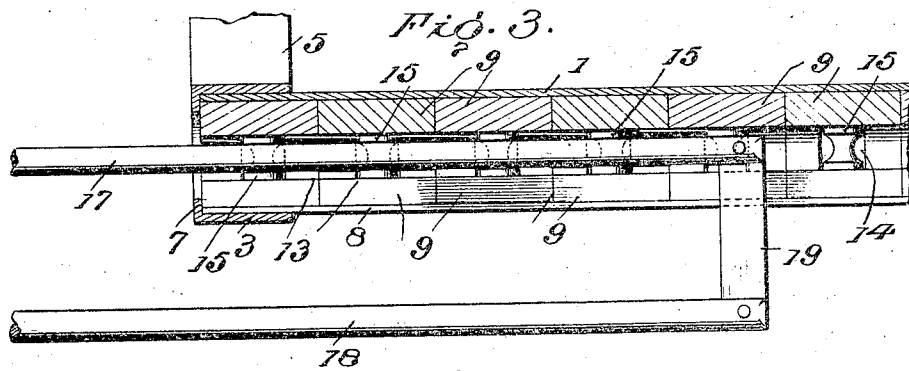
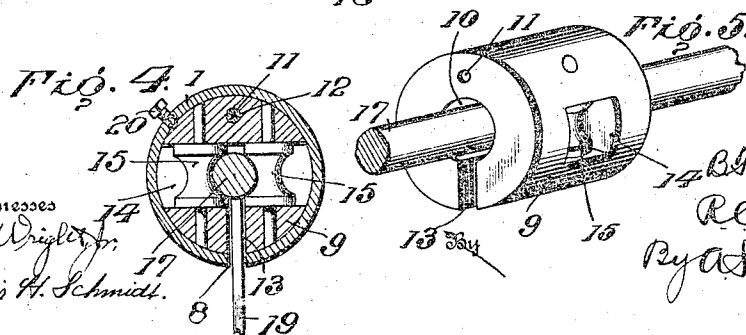
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PATENTED APR. 2, 1907.

B. F. GOLDNAMER & R. C. HALL.

CARRIER.

APPLICATION FILED AUG. 3, 1906.



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UNITED STATES PATENT OFFICE.

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CARRIER.

No. 849,124.

Specification of Letters Patent.

Patented April 2, 1907.

Application filed August 3, 1906. Serial No. 329,043.

To all whom it may concern:

Be it known that we, BENJAMIN F. GOLDNAMER and ROBERT C. HALL, citizens of the United States, residing at Cynthiana, in the county of Harrison and State of Kentucky, have invented certain new and useful Improvements in Carriers, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to improvements in carriers, and pertains more particularly to clothes-supporting carriers.

The object of our invention is to provide a carrier of this character which is more readily and easily moved in or out with less friction and in which the supporting-arm is readily held in its extended position parallel with the supporting member or tube forming the carrier.

Another object of our invention is to provide a carrier of this character in which the roller-carrying member is made in sections and each section carrying an oppositely-arranged pair of rollers, whereby when a roller becomes broken or otherwise disabled the section carrying the same can be readily removed and a new section placed therein without removing all of the sections, and thus obviating the necessity of replacing a whole new support.

A still further object of our invention is to provide a more simple, cheap, and effective device of this character which can be as aptly applied to numerous other devices without departing from our invention.

In the accompanying drawings, Figure 1 is a side elevation of our improved carrier applied to a clothes-supporting rack. Fig. 2 is an enlarged perspective view of our improved carrier detached. Fig. 3 is a vertical longitudinal sectional view of Fig. 2. Fig. 4 is a transverse vertical sectional view of Fig. 2; and Fig. 5 is a detached perspective view of one of the roller-carrying members, showing the supporting-arm in its operative position.

Referring now to the drawings, 1 represents a supporting-tube, which, as shown, is of an elongated form and has supporting means 2, by which it can be supported in any desired place, according to what use it is to be applied. The said tube at each end is provided with sleeves 3 and 4 and have an extended portion 5, by which the tube is supported in its horizontal operative position.

The said sleeves are preferably secured to the tube by a transverse pin 6, which is removable and the purpose of which will be hereinafter more fully described. The said sleeves are also provided with inwardly-extending flanges 7, which extend over the end of the tube 1 and are adapted to hold the sections within the tube, as will be also hereinafter more fully described. The lower face of the tube 1 is provided with a longitudinally-extending slot 8.

Within the tube 1 are located the roller-carrying sections 9, which are of a cylindrical form, so as to snugly fit the interior of the tube 1, and the ends of the sections snugly fit the tube, there being a sufficient number of these sections to fill the tube, and thus will provide the same with the roller-bearings throughout its entire length. The sections are provided with longitudinal openings 10, extending centrally therethrough, and when these openings form a continuous passage through the tube. Passing through a small opening 11 in the upper portion of the sections is a rod 12, which locks the sections together against independent rotation within the tube. The sections are provided in their lower faces with a slot 13, which registers with the slot 8 in the tube, and the said slot 13 communicates with the central opening 10 in the sections 9. The said sections are each provided with a transverse opening 14, which extends entirely through the sections and is of a height slightly greater than the diameter of the opening 10, thus extending a short distance above and below the said openings 10. Mounted within said openings 14 on each side of the opening 10 is a roller 15, which is provided with a concaved bearing-surface which extends inwardly a short distance across the opening, as will be hereinafter more fully described.

The supporting-rod consists, preferably, of a U-shaped bar 16, having the end 17 entering the openings in the sections from one end of the tube, while the opposite end 18 extends in a parallel position below the tube. The said rod is supported within the sections by the concaved faces of the rollers and is thus free to move longitudinally within the tube. The inner free ends 17 and 18 are connected by a plate 19 in any desired manner, said plate passing through the slots in the sections,

and it is thus free to move therein, whereby the lower bar 16 is supported at its inner end. The said plate 19 limits the outward movement of the rod, as it will engage the supporting-sleeves 3 and prevent the U-shaped bar from being pulled too far out. The said plate passes through the slots of one section at all times, and the sections being locked together against independent rotation it will be seen that the slots of all the sections are at all times registering with the slot of the tube to allow the plate 19 to freely move longitudinally. The flanges 7 engage the two end sections and hold them in their abutting position.

When used as a clothes-carrier, the bar 18 is adapted to support the garment holders or racks, and when used as a door-hanger the said bar is secured to the door. Should a roller of one section become broken, all that is necessary is to remove the sleeve at that end of the tube nearest the section carrying the broken roller and the sections can be removed. The section carrying the broken roller can then be removed and a new one replaced, thus obviating the necessity of replacing the entire hanger, as is usually the case.

While we have shown the sections formed in a continuous line within the tube with their ends abutting each other, it will be understood that the sections may be spaced apart and held in said spaced position by means of screws 20, (shown in Fig. 4,) which pass through the tube 1 from the outside and enter the section, thus holding the same against longitudinal movement and rotation, and thus dispensing with the rod 12.

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

1. A carrier comprising a supporting-tube, removable roller-bearing-carrying sections within the tube and a supporting member within the tube and working between the rollers.

2. A carrier comprising a supporting-tube having a slot in its lower face, removable roller-bearing-carrying sections within the tube and with slots corresponding to the slot in the tube, and a supporting-rod working within the sections and having a downwardly-extending supporting means passing through the slot in the sections and the tube and adapted to travel therein with the rod.

3. A carrier comprising a supporting-tube, removable sections therein and said sections having central longitudinal openings therethrough, rollers carried by the sections on opposite sides of the openings, and a supporting-rod within the openings in the sections and supported by the rollers therein.

4. A carrier comprising a supporting-tube having a slot in its lower face, removable roller-bearing-carrying sections within the

tube having slots corresponding with the slot in the tube, and a supporting-rod movable within the section and having one end projecting through the end of the supporting-tube and the opposite end having a downwardly-extending lug passing through the slots in the sections and tube.

5. A carrier comprising a supporting-tube, removable roller-bearing-carrying sections within the tube, and means for holding said sections within the tube.

6. A carrier comprising a supporting-tube, removable roller-bearing-carrying sections within the tube, and a rod passing through the sections and holding them in their relative positions in respect to each other within the tube.

7. A carrier comprising a supporting member, removable roller-bearing-carrying sections carried by the supporting member, and a hanging member movably supported within the sections.

8. A carrier comprising a supporting member, removable roller-bearing-carrying sections carried by the supporting member, means for holding said sections within the supporting member, and a hanging member movably supported within the sections.

9. A carrier comprising a supporting-tube, cylindrical roller-bearing-carrying sections within the tube and a hanging member movably supported within the sections.

10. A carrier comprising a supporting-tube, cylindrical sections within the tube and having openings therethrough, rollers carried by the sections on two opposite sides of the openings, and a hanging member movably supported within the openings in the sections.

11. A carrier comprising a supporting-tube, cylindrical sections within the tube and openings extending longitudinally therethrough, rollers carried by the sections on two opposite sides of the openings, and a rod passing through openings in the sections and supported by the rollers.

12. A carrier comprising a supporting-tube, removable sections within the tube, a pair of roller-bearings within each section, and a rod supported by the roller-bearings within the sections.

13. A carrier comprising a supporting-tube, removable sections within the tube and having a longitudinal opening therethrough, each section having a transverse opening intersecting the longitudinal opening, rollers journaled in the transverse openings on each side of the longitudinal opening, and a hanging rod movable within the longitudinal opening and supported by the rollers.

14. A carrier comprising a supporting-tube, removable sections within the tube, a pair of concaved rollers within each section, and a rod supported by the roller-bearing within the sections.

15. A carrier comprising a tube having a

slot in its lower face and extending the entire length thereof, supporting means carried by the upper face of the tube, cylindrical sections within the tube and having their ends abutting said sections and having central openings and a slot extending downwardly and communicating with the openings and registering with the slot in the tube, means for securing said sections within the tube, said sections having transverse openings intersecting the longitudinal openings, the said openings of each section having a roller vertically journaled therein, and said roller having concaved faces extending slightly within the longitudinal opening, a rod located within the

longitudinal openings of the sections and supported by the concaved faces of the roller, the inner end of said rod being bent downwardly and around beneath the tube, and a thin strip connecting the inner end of the rod and traveling in the slots in the sections and tube.

In testimony whereof we affix our signatures in presence of two witnesses.

BENJAMIN F. GOLDNAMER.
ROBERT C. HALL.

Witnesses:

MONTGOMERY W. ROWLAND,
WALLACE L. AMMERMAN.