F. A. HERRICK.

RACK.

APPLICATION FILED FEB. 14, 1916.

1,259,623.

Patented Mar. 19, 1918.

2 SHEETS—SHEET 1.

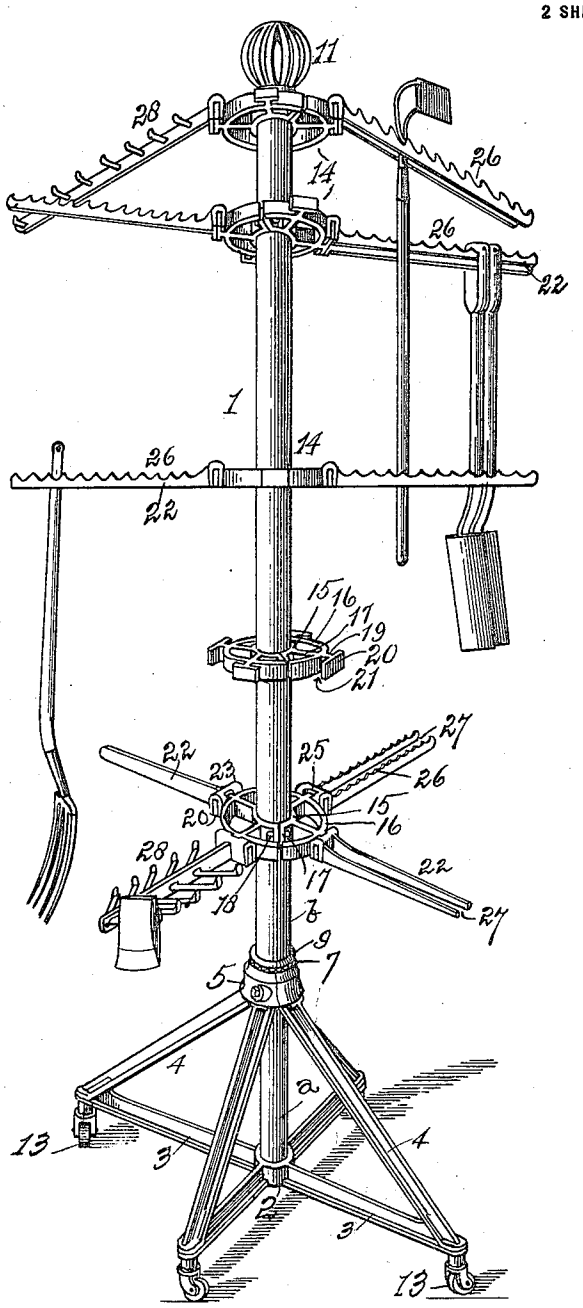


Fig. 1.

WITNESSES:

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2 SHEETS—SHEET 2.

Fig. 2.

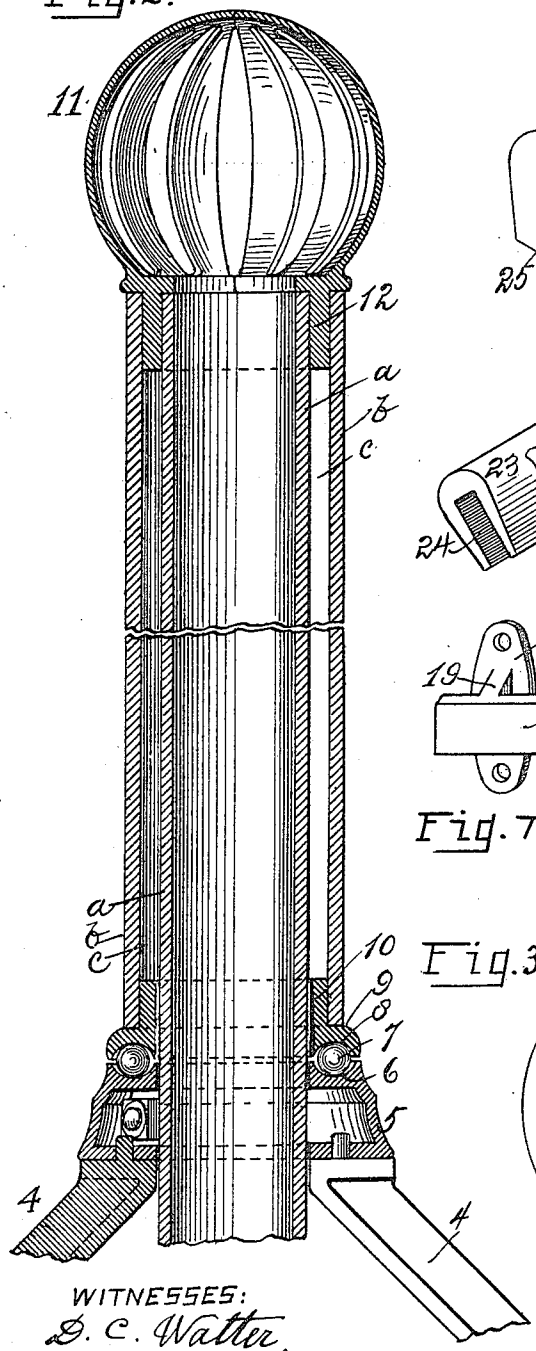


Fig. 5.

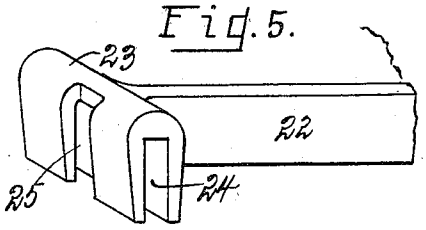


Fig. 6.

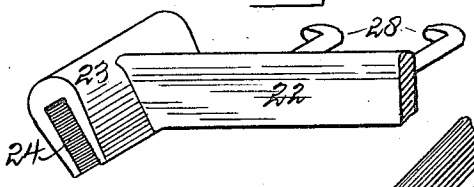


Fig. 7.

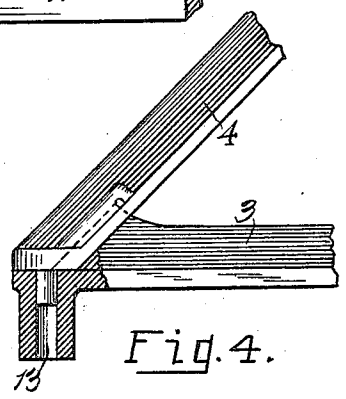
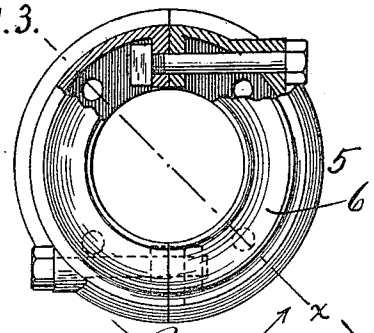


Fig. 4.

Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANK A. HERRICK, OF TOLEDO, OHIO, ASSIGNOR TO THE F. A. HERRICK COMPANY, OF TOLEDO, OHIO, A CORPORATION.

RACK.

1,259,623. Specification of Letters Patent. Patented Mar. 19, 1918.

Application filed February 14, 1916. Serial No. 78,103.

To all whom it may concern:

Be it known that I, FRANK A. HERRICK, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Racks; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to and its object is to provide a rack for the support of articles, which may also be utilized as a display rack for merchandise, and which may be "knocked down" for transportation and which may be readily erected for use.

To these ends my device consists of the devices construction and arrangement of parts hereinafter described, and shown and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my rack erected for use and disclosing its use as a display rack, as for instance, in a hardware store, and with some of the bracket-arms hereinafter referred to removed; Fig. 2, a central vertical sectional elevation, on an enlarged scale, of the standard hereinafter referred to and disclosing the bearings upon which the standard and its bracket-arms may be rotated; Fig. 3, a top-plan view, partly in section, of the bearing-sleeve hereinafter referred to; Fig. 4, a side-elevation, partly in section, of the bars and braces forming the base hereinafter referred to; Fig. 5, a view, on an enlarged scale, of the inner end of one of the removable bracket-arms hereinafter referred to; Fig. 6, a like view of another one of said arms, and Fig. 7, a front elevation of an alternative form of device for engaging the inner end of one of such bracket-arms.

Like numerals and letters of reference indicate like parts throughout the drawings.

In the drawings, 1 is a column or standard consisting of an inner tube *a* and an outer tube *b* having between them an annular space *c*. The bottom of the inner tube is stepped rigidly in a socket 2 formed at the intersection of the cross-bars 3. From the outer ends of the cross-bars lead upwardly converging braces 4 which are respectively connected, as illustrated in Fig. 2, to the bottom of a sleeve 5 tightly surrounding the inner tube *a* of the standard 1. The cross-bars, converging braces and sleeve 5 form the base for the device. On the upper side of the sleeve 5 is a ball-race 6 in which travel a series of balls 7 which also travel in a ball-race 8 formed in the under side of flange 9 on sleeve 10 which loosely embraces the inner tube *a*. The outer tube *b* rests upon the flange 9 and tightly embraces the upper part of the sleeve 10. At the top the standard 1 is surmounted by an ornamental globe or cap 11 of any suitable design which rests upon the upper ends of both the tubes *a*—*b* and which has a downwardly projecting circular flange 12 which extends into the top of the annular space *c* between the two tubes, the outer tube being loose and the inner tube being tight relatively to said flange. It will now be seen that the inner tube stands fast while the outer tube may be rotated upon the ball bearings 6—7—8. At and immediately beneath the outer ends of the cross-arms 3 are casters 13 upon which the device may be trundled about at will.

14 is a split collar, of which there is a series, adapted to be detachably secured upon the column 1, one above another. The collar consists of an inner ring 15 and an outer ring 16 connected by radial bars or spokes 17. These collars are divided diametrically and are clamped tightly upon the standard 1 by means of set-screws 18 passing through adjacent parallel radial bars or spokes 17. Projecting radially and horizontally from the outer rings 16 are short stems 19 having at their outer ends angular cross-heads 20, there being between the outer ring and the inner face of the cross-head narrow spaces 21.

22—22 are arms having, respectively, at one end and at a right-angle thereto a head 23 channeled on its underside as at 24 and centrally and upwardly notched as at 25. The channel 24 fits snugly over the head 20 with the notch 25 astride of the connecting stem 19 so that a bar 22 thus engaged with the outer ring 16 is firmly supported in horizontal position, when the head is vertically disposed, as shown in Fig. 5, and so that the arm is inclined when the head is

inclined relatively to the arm, as illustrated in Fig. 6. The arms 22 may be provided with a variety of devices for engaging such articles as are to be supported by the arms, as for instance, they may be notched on their upper side, as at 26, or split as at 27, or provided with hooks as at 28. Instead of forming the short stems 19 and the heads 20 integral with the segments of the rings 16, these parts may be formed integral with a supporting member 29 which may be bolted or riveted or otherwise rigidly secured upon its support. (See Fig. 7.)

The operation of my device will now be obvious. It will be seen that the base-piece 2—3 may be readily connected with or removed from the braces 4; that the collar 5 may be quickly connected with or detached from the top of the braces; that the column 1 may be readily erected upon the base and its ball-bearings; that the collars 14 may be detachably clamped upon the pillar at any desired height, and that the bracket-arms 22 may, by means of the heads 23, be quickly and conveniently connected with or disengaged from the heads 20, and that thus the whole device may be quickly erected for use or knocked down for transportation or storage.

Having described my invention, what I claim and desire to secure by Letters Patent, is—

1. In a device of the described character, a bracket-arm having at one end a rectangular head channeled on its underside, the outer wall of such channel being upwardly notched, a corresponding head adapted to fit said channel and having a stem adapted to engage said notch, and means for the rigid support of said stem.

2. In a device of the described character, a bracket-arm having at one end a rectangular head channeled on its underside, the outer wall of such channel being upwardly notched, a corresponding head adapted to fit said channel and having a stem adapted to engage said notch, a tubular column, a removable collar for the column, and rigid connections between said stem and said collar.

3. In a device of the described character, an upright column consisting of an inner and an outer tube, a base comprising horizontal cross-arms and converging braces, said inner tube being secured at the intersection of said cross-arms, a sleeve with which said converging braces are detachably engaged and through which said inner tube passes, another sleeve journaled upon the sleeve first mentioned and with which said outer tube is engaged and bracket-arms upon said column.

4. A device of the described character comprising an upright column consisting of an inner and an outer tube, a base comprising horizontal cross-arms and converging braces, said inner tube being secured at the intersection of said cross-arms, a sleeve with which said converging braces are detachably engaged and through which said inner tube passes, another sleeve journaled upon the sleeve first mentioned and with which said outer tube is engaged, a series of detachable collars on said column, one above another, radial bracket-arms, and devices for detachably engaging the inner ends of said bracket-arms with said detachable collars.

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

FRANK A. HERRICK.

Witnesses:
JOHN H. JAMESON,
GERTRUDE BRACKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."