(No Model.)

C. B. DE WEESE & T. E. MAXWELL.

UMBRELLA RACK.

No. 421,352. Patented Feb. 11, 1890.

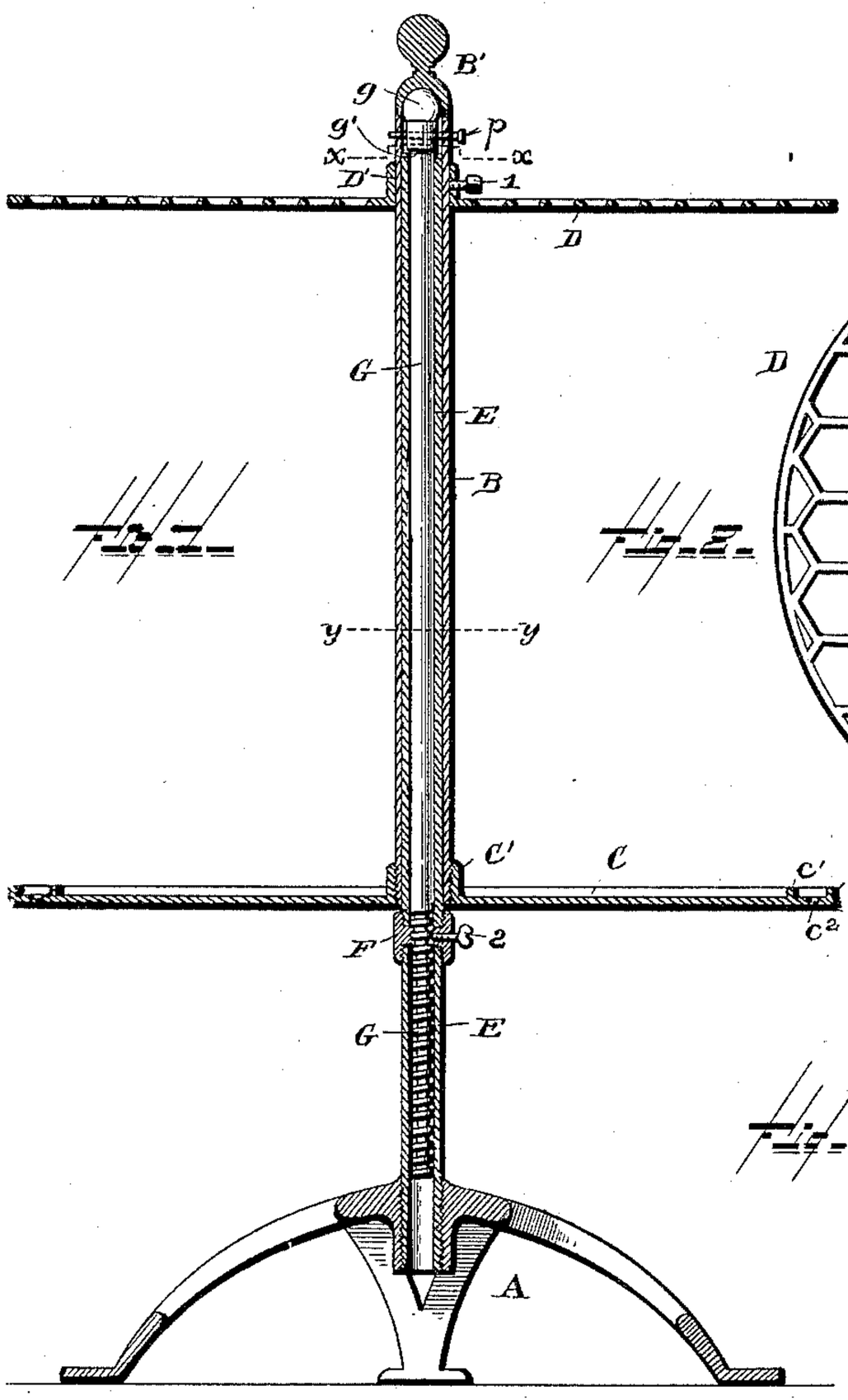

Fig. 1.

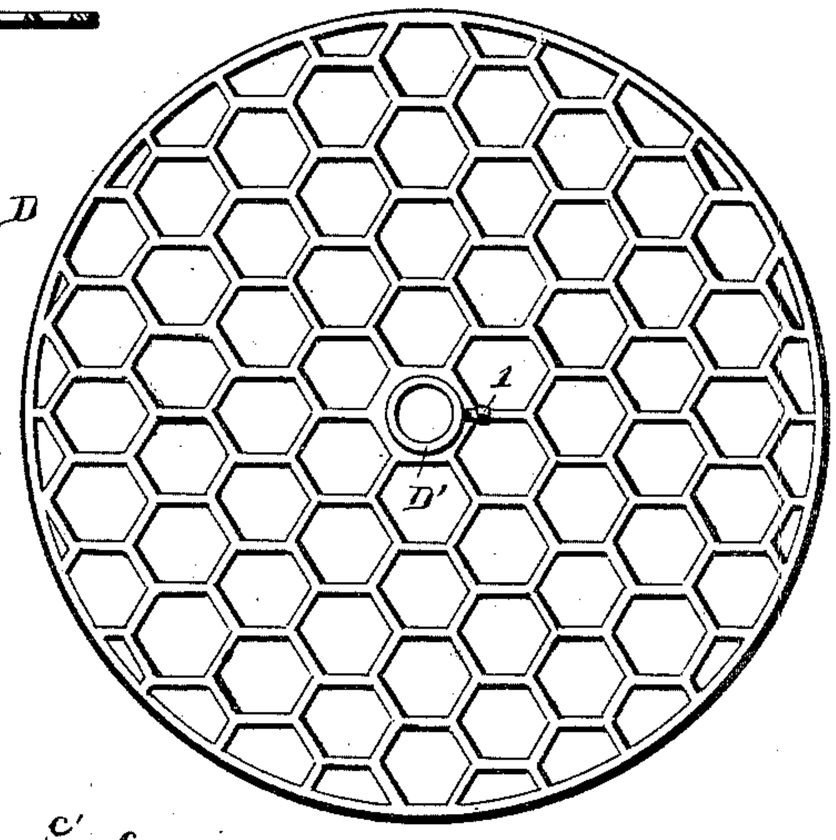

Fig. 2.

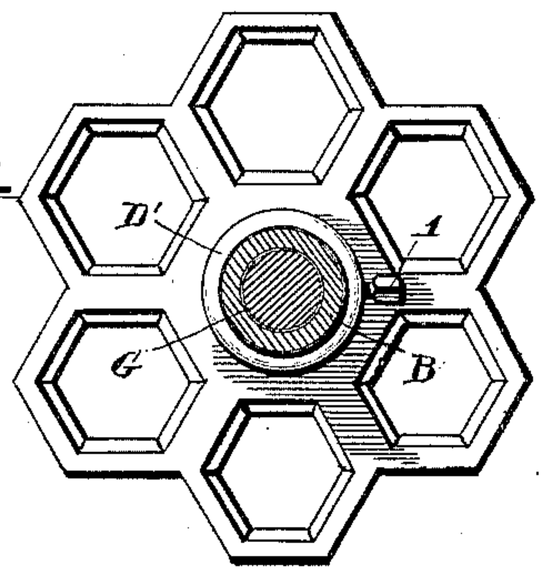

Fig. 3.

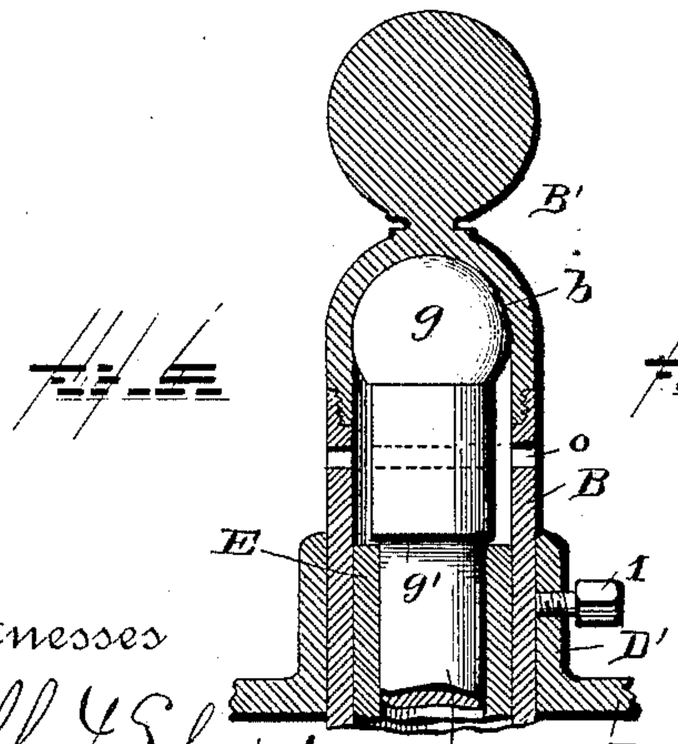

Fig. 4.

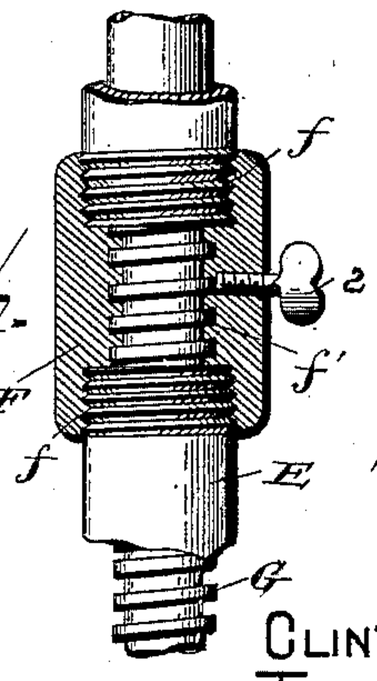

Fig. 6.

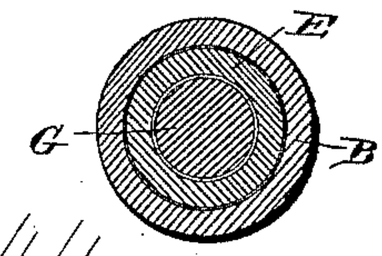

Fig. 5.

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UNITED STATES PATENT OFFICE.

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UMBRELLA-RACK.

SPECIFICATION forming part of Letters Patent No. 421,352, dated February 11, 1890.

Application filed April 19, 1889. Serial No. 307,909. (No model.)

To all whom it may concern:

Be it known that we, CLINTON BAILY DEWEESE and THOMAS ELMER MAXWELL, citizens of the United States, residing at Sidney, in the county of Shelby and State of Ohio, have invented a new and useful Umbrella-Rack, of which the following is a specification.

Our invention relates to improvements in umbrella-racks; and it has for its object to provide a rack that will hold a maximum number of umbrellas separate one from another, that can be revolved easily when filled, and that can be conveniently and readily adjusted to suit umbrellas of varying lengths, and also to raise or lower the umbrellas with respect to the base of the rack.

The invention will first be described in connection with the accompanying drawings, and then pointed out in the claims.

Figure 1 of the drawings is a longitudinal vertical section of our umbrella-rack. Fig. 2 is a plan view of the perforated holding-disk or receiver. Fig. 3 is a horizontal section taken on the line *x x*, Fig. 1, showing a portion of the receiver enlarged to more clearly illustrate the scope of its perforations. Fig. 4 is an enlarged vertical sectional view of the upper end of the revoluble tube and elevating-rod, illustrating the ball-bearing and means for locking the rod and revoluble tube together. Fig. 5 is a horizontal section taken on the line *y y*, Fig. 1, showing the relative arrangement of the revoluble tube, the fixed tube, and the adjustable rod. Fig. 6 is an enlarged detail view showing the coupling-nut, the two-part inner tube joined therein, and the elevating-rod passed therethrough, the nut being in section.

Referring to the drawings, A represents the base, which is provided with any desired number of feet, preferably three, and mounted on casters or not, at pleasure.

B is an outer tube, provided at its upper end with a cap-piece B′, screwed thereon, said cap-piece having a concave inner surface, as at *b*.

C is the circular rest-plate on which the umbrellas rest. This plate has a raised outer rim *c*, and a short distance inward from this rim there is a raised flange *c′* for holding the outer row of umbrellas in an even position, the plate between the rim and flange having a series of depressions c^2 at regular intervals for the reception of the lower ends of the umbrella-sticks. This plate is provided with a hub C′, screw-threaded interiorly, for screwing onto the lower screw-threaded end of tube B.

D represents the holding-disk or receiver for holding the umbrellas in an upright position. It also is provided with a hub D′, which fits neatly over the upper portion of tube B, and is provided with a set-screw 1, in order that the disk may be adjusted vertically. In order to provide this holder with the greatest possible number of receptacles, each for the reception of an umbrella, and to lessen its weight as much as is consistent with the requisite strength, we perforate it throughout, the perforations being of hexagonal shape, by reason of which they are separated by only a thin web. Then, again, for the purpose of allowing the umbrella to be easily passed through the holding-disk, each perforation is made larger on the upper side of the disk than upon the lower side. In other words, the walls of the perforation slope inwardly from the upper side of the disk, as clearly shown in Figs. 1 and 3.

E is a stationary tube, which serves as a shaft for the outer revoluble tube carrying the holding-disk and rest-plate. It is made in two parts united by a coupling-nut F, which will be presently described, the lower portion of the tube E being screwed into the base A and nut F and the upper portion into the nut alone, this portion of the stationary tube passing up into the outer tube B to near the cap-piece.

The coupling-nut F, as clearly seen in Fig. 6, is cored out and screw-threaded interiorly at each end, as at *f*, for the reception of the screw-threaded ends of the two-part tube E, as above stated, and is also perforated in a central longitudinal direction, as at *f′*, the perforation being screw-threaded for the reception of the screw-threaded lower end portion of the elevating-rod.

G represents the elevating-rod, whose lower end portion is screw-threaded and works in nut F, the rod being located inside the stationary tube E. Its extreme upper end is enlarged and rounded or ball-shaped, as at

g, and fits into the concavity in the cap-piece B′, thus forming a ball-joint for the easy revolution of the outer tube B, carrying the holding-disk and rest-plate.

As the lower end of the elevating-rod is screw-threaded and works in the nut, which is stationary, it is evident that by locking the rod and outer tube together the rest-plate and holding-disk may when desired be simultaneously adjusted vertically with relation to the base. This locking of the parts we accomplish by means of a pin *p*, Fig. 1, passed through a horizontal perforation *o* in the rod and outer tube, (seen in Fig. 4,) the set-screw 2 in nut F being in this case loosened. When it is desired to revolve the rack without elevating or lowering the parts, it is only necessary to tighten set-screw 2 and withdraw the pin, when the rod will remain stationary and the outer tube will revolve freely. In this case, however, it may sometimes happen that the rod is not properly secured by the set-screw 2 and is slightly turned, so as to bring its perforation below register with the perforation in the outer tube, and to avoid this inconvenience we have provided the rod with a shoulder at *g′*, which rests on top of the inner stationary tube, thus keeping the rod at all times in its proper vertical position with relation to the outer tube.

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

1. In an umbrella-rack, a circular rest-plate having an upwardly-extending rim on its outer edge, a raised flange a short distance inward from the rim, and a series of depressions at regular intervals apart in the annular space between the rim and flange, in combination with a holding-disk and a support for the disk and plate, whereby the outer row of umbrellas will be held in an even position, substantially as described.

2. In an umbrella-rack, a revoluble tube bearing the holding-disk and the rest-plate, and provided at its upper end with a cap-piece having a concave inner surface, in combination with an elevating-rod having an enlarged and rounded upper end to form a ball-bearing in the cap-piece, substantially as described.

3. In an umbrella-rack, the combination, with the revoluble tube bearing the holding-disk and the rest-plate, of an elevating-rod, screw-threaded at its lower end for engagement with the threads in the nut, and suitable means for locking said rod and tube together when desired, whereby the rest-plate and holding-disk may be simultaneously adjusted as to height from the base, substantially as described.

4. In an umbrella-rack, the combination, with the base, of a revoluble tube bearing the holding-disk and the rest-plate, a two-part tube inside the revoluble tube, a nut screw-threaded interiorly at each end and having a central longitudinal screw-threaded perforation, the lower portion of the inner tube being secured in the base and in the lower end of the nut, and the upper portion of said tube secured in the upper end of the nut, an elevating-rod inside the inner tube, its lower end screw-threaded for engagement with the threaded perforation in the nut, and a pin for locking the rod and outer tube together when desired, for the purpose stated.

5. An umbrella-rack comprising a base, a nut screw-threaded interiorly at each end and having a central longitudinal screw-threaded perforation, a two-part inner tube secured in the base and nut, a revoluble outer tube provided with a cap-piece having a concave inner surface, a rest-plate secured on the lower end of the outer tube, a holding-disk loosely mounted on said outer tube and provided with a set-screw, and an elevating-rod screw-threaded at its lower end for engagement with the threads in the perforation in the nut and enlarged and rounded at its upper end to form a ball-bearing in the cap-piece, substantially as described.

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