No. 716,116.

Patented Dec. 16, 1902.

F. SCOTT.

BROOM HOLDER.

(Application filed Sept. 7, 1901.)

(No Model.)

Fig. 2.

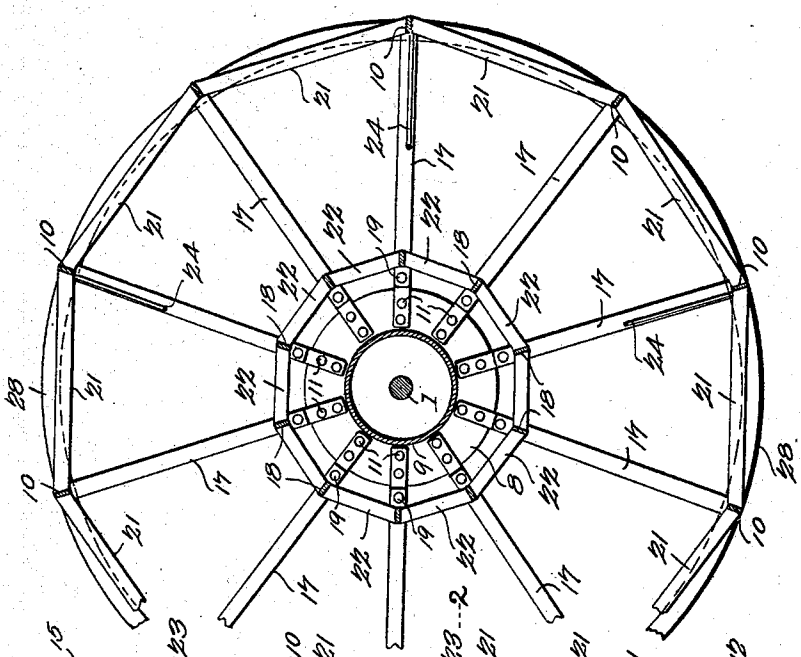
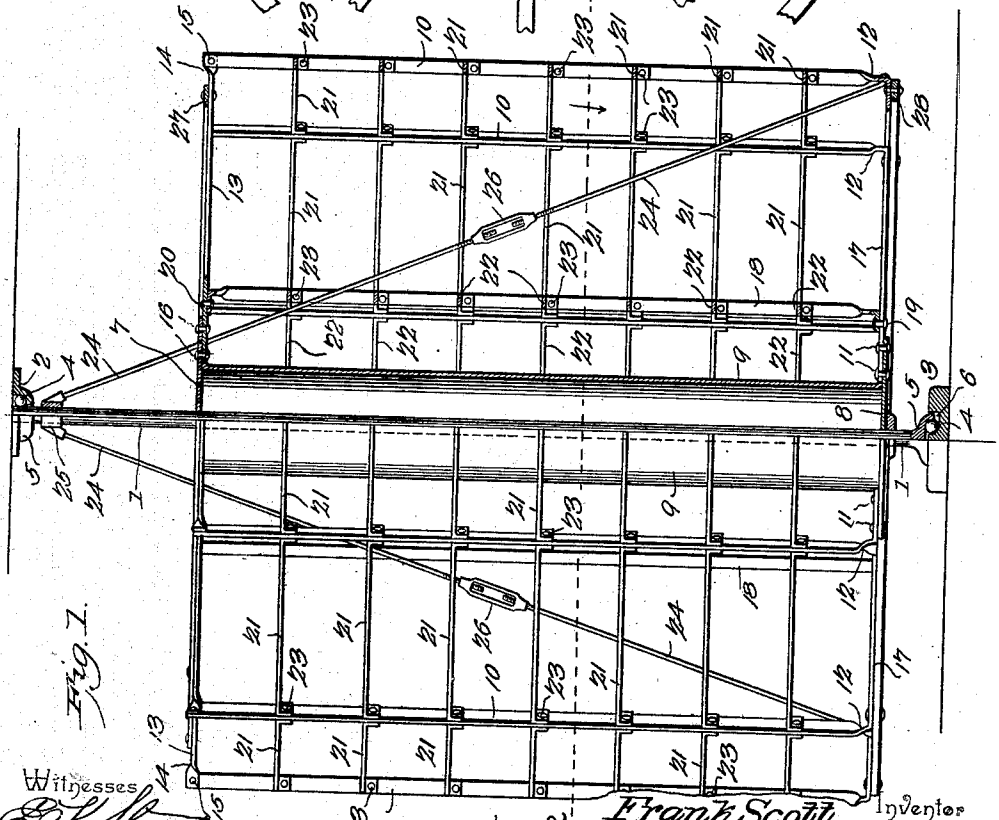


Fig. 1.



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UNITED STATES PATENT OFFICE.

FRANK SCOTT, OF CATLETTSBURG, KENTUCKY, ASSIGNOR OF ONE-HALF TO LABAN T. EVERETT, OF CATLETTSBURG, KENTUCKY.

BROOM-HOLDER.

SPECIFICATION forming part of Letters Patent No. 716,116, dated December 16, 1902.

Application filed September 7, 1901. Serial No. 74,636. (No model.)

To all whom it may concern:

Be it known that I, FRANK SCOTT, a citizen of the United States, residing at Catlettsburg, in the county of Boyd and State of Kentucky, have invented a new and useful Broom-Holder, of which the following is a specification.

This invention relates to broom-holders, and particularly to that class adapted for holding brooms in storage in large bulk.

The object of the invention is to present a simply-constructed, durable, and highly-efficient form of broom-holder in which the brooms in bundles may be supported in such manner as to be readily removed from the holder either for the purpose of inspection or for sale. Furthermore, to provide a broom-holder in which the stock supported thereby may be readily brought opposite the person desiring to remove the same from the holder.

With these and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a broom-holder, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts, there is illustrated a form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the scope of the invention; and in the drawings—

Figure 1 is a view in elevation, partly in section, of a broom-holder characterizing the present invention. Fig. 2 is a view in horizontal plan taken on the line 2 2, Fig. 1.

Referring to the drawings, 1 designates the supporting-shaft of the structure, the same being supported in sockets 2 and 3, secured, respectively, to the ceiling and the floor of the room in which the structure is located, there being ball-bearings 4 associated with the sockets in any preferred manner to reduce friction between the shaft and sockets. As herein shown, each end of the shaft is provided with a head 5, having a flange to bear against the ball-bearings, which are mounted in recesses 6 in the said sockets. This form of ball-bearing will be effective for the purpose designed; but it is to be understood that the invention is not to be limited to this particular arrangement, as other forms of bearings may be employed and still be within the scope of the invention. Mounted upon the shaft at each end thereof is a disk 7 and 8, constituting the ends of a drum or cylinder 9, through which the shaft projects centrally thereof, the cylinder forming a stop or abutment against which the ends of the handles of the bundles of brooms will rest when the same are placed in position upon the holder. The cage or holder comprises a plurality of uprights 10, each constructed of a bar of metal having its flat side rigidly bolted to the disk 8, as at 11, and then bent upon itself at right angles in a quarter-turn, as at 12, and extended upward the desired height parallel with the shaft 1, the upper terminal of each upright being engaged by the outer end of a bar 13, which is bent on a quarter-turn to lie flat against the uprights, as shown at 14, and is secured thereto by a rivet or bolt 15, the inner end of the bar 13 being bolted or riveted to the upper disk 7 at 16. The lower member 17 of each upright and the bar 13, connecting with the upper end thereof, constitute radial brace-rods, as will be clearly understood by reference to Fig. 2. Arranged contiguous to the cylinder and concentric therewith is a series of uprights 18, corresponding in number to the uprights 10, the upper and lower ends of which are each bent on a quarter-turn and at right angles to the length of the upright and bolted to the member 17 and bar 13, as at 19 and 20, respectively. Secured to these uprights 10 and 18 at suitable distances apart are pairs of bars 21 and 22, constituting broom-rests, these being associated with the uprights by having their terminals bent at right angles to their lengths and secured to the uprights by bolts or rivets 23.

It will be observed by reference to Fig. 2 that the spaces between the members 17 and bars 13 are triangular in shape, this being best adapted to accommodate a bundle of

brooms, as the narrow or handle ends thereof will rest on the bars 22 and their heads upon the bars 21, and by this simple arrangement all the space of the holder is utilized.

To brace the cage or holder against sagging at its circumference, a plurality of guy-rods 24 is employed, the lower ends of which are secured in this instance at the bends of the uprights 10 and their upper ends in a socket-bearing collar 25, secured to the shaft 1, near the ceiling-socket 2. These rods each carry a turnbuckle 26, by which to put the same under requisite tension always to keep the periphery of the cage from sagging, as will be readily understood by reference to Fig. 1. To hold the members 17 of the upright 10 and the bars 13 at the proper distance apart, spacing-rings 27 and 28 are employed, which are firmly bolted to the said parts near their outer extremities, as clearly shown in Fig. 1.

In the use of this apparatus the bundles of brooms are placed in their appropriate apartments, and should it be desired to examine a number of the bundles the operator will merely have to turn the cage to bring the desired bundle opposite him.

While the structure is exceedingly simple of construction, it will be found of the highest efficiency and durability in use, and by reason of the ease with which the bundles of brooms may be positioned within the holder and removed therefrom it will be found to fill a long-felt want in broom factories.

While but two series of vertical uprights 10 and 18 are herein described, it is to be understood that a greater number of series may be employed, and as this will be obvious detailed illustration is deemed unnecessary.

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

1. A broom-holder comprising a rotatable shaft, a disk secured adjacent to each end thereof, a cylinder surrounding the shaft and of less diameter than and secured to the disks, an open-work cage or holder comprising radial members secured to the disks, two series of uprights rigidly secured to the radial members at their extremities and at points adjacent to the cylinder, concentrically-arranged horizontally-disposed members connected with the uprights and constituting broom-supports, and spacing-rings secured to the radial rings adjacent to their extremities.

2. A broom-holder comprising a rotatable shaft, a disk secured adjacent to each end thereof, a cylinder surrounding the shaft and of less diameter than and secured to the two disks, an open-work cage or holder comprising radial members secured to the opposite ends of the cylinder and two series of concentrically-arranged uprights rigidly secured to the members at their extremities and at points adjacent to the cylinder, horizontally-disposed concentrically-arranged members connected and constituting broom-supports, spacing-rings secured to the radial members adjacent to their extremities, and adjustable guide-rods connected with the periphery of the lower portion of the holder and with the shaft at a point above the upper end of the holder.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRANK SCOTT.

Witnesses:
L. T. EVERETT,
CHARLES BURKE.