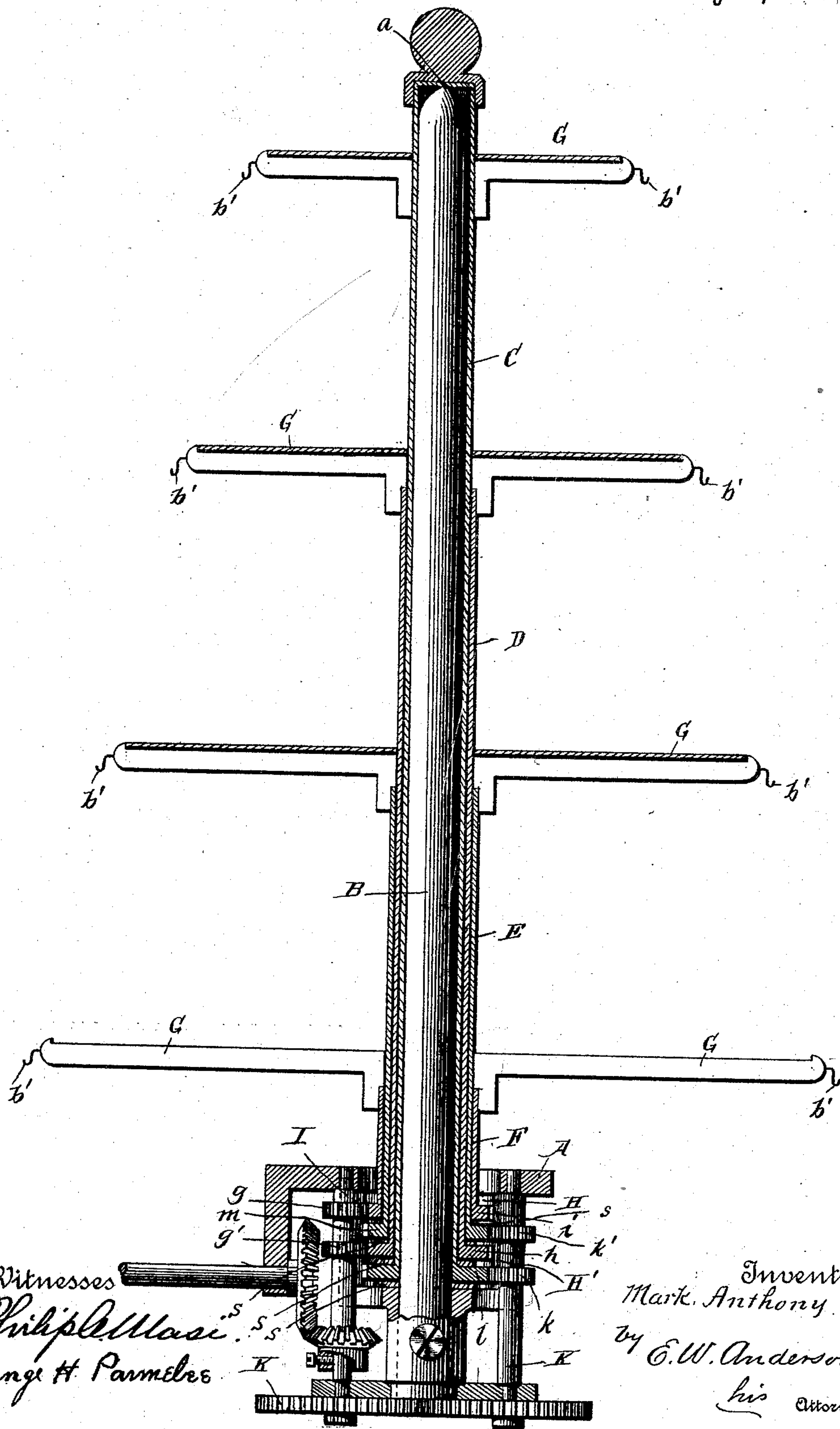


(No Model.)

M. ANTHONY.  
DISPLAY STAND.

No. 500,839.

Patented July 4, 1893.



Witnesses  
Philip Massi  
George H. Parmelee

Inventor  
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# UNITED STATES PATENT OFFICE.

MARK ANTHONY, OF BERKELEY, CALIFORNIA.

## DISPLAY-STAND.

SPECIFICATION forming part of Letters Patent No. 500,839, dated July 4, 1893.

Application filed November 30, 1891. Renewed December 13, 1892. Serial No. 455,075. (No model.)

*To all whom it may concern:*

Be it known that I, MARK ANTHONY, a citizen of the United States, and a resident of Berkeley, in the county of Alameda and State of California, have invented certain new and useful Improvements in Display-Stands; 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 drawing, and to letters of reference marked thereon, which form a part of this specification.

The figure of the drawing is a vertical section.

This invention has relation to certain new and useful improvements in display stands, and it consists in the novel construction and combination of parts as hereinafter specified. In the accompanying drawing, the letter A designates a suitable base, frame, or support, in which is held the lower end of a stationary vertical rod or shaft B. C designates an elongated rotary sleeve loosely surrounding said rod. The upper end of the sleeve is closed and has a bearing at *a* on the rounded or convex upper end of the rod. Outside of this central sleeve, and concentric therewith and with each other is a series of rotary sleeves which, in the drawing, I have shown as three in number, and designated respectively by the letters D, E, and F. These sleeves are shown as terminating in different horizontal planes, at the points denoted by the letters *d*, *e* and *f* respectively, the inner sleeve D, having the greatest vertical elongation. Each of said sleeves, including the central sleeve C, has fast thereto a horizontal disk G, or it may be a series of radial arms. These disks are usually arranged in the form of a cone, produced by the gradual divergence in diameter of each from the bottom upward, but this is not essential. The lower portions of the sleeves extend down into a circular socket or chamber H in the base, where they are each shown as provided with an annular gear wheel. These wheels are suitably secured to the lower ends of the sleeves which terminate in different horizontal planes, in

the reverse order to their upper ends, so that said gear wheels are located one above the other, as shown.

I designate a vertical shaft, having bearings in the base, and which is driven by any suitable mechanism, such as the bevel gear shown. This shaft carries the two pinions *g*, *g'*, which respectively engage the gear wheels *h* and *i* of the alternate sleeves D and F, through the cut away portion H' of the socket H. Said shaft also carries a large gear wheel K, which meshes with a similar gear on a parallel shaft K'. Said shaft also carries two pinions *k* and *k'*, which are so located as to engage respectively the gear wheels *l* and *m* of the alternate sleeves C and D, but on the opposite side from which the pinions *g*, *g'*, engage the sleeves D and F. It will therefore be apparent that when the shaft I is actuated, the alternate disks or series of arms carried by the sleeves will be rotated in opposite directions, which greatly increases the display effect. Said disks are usually provided around their peripheries with a series of small hooks *b'*, or with suitable clasps by means of which articles to be displayed may be suspended therefrom. The lower end of the stationary central rod A, is held in a socket A' in the base, and is made adjustable therein for the purpose of taking up any wear at its bearing end, by means of the set screw *a* therein. The lower portions of the sleeves are generally separated from each other by anti-friction washers *s*. A suitable cap M of ornamental form is usually fitted on the upper end of the sleeve C.

Although in the accompanying drawing, I have shown but four of the concentric sleeves, and a corresponding number of the disks carried thereby, I desire it understood that any suitable number of sleeves may be employed with a consequent greater or less amount of disks.

I desire also not to confine myself to the driving mechanism shown, as it is obvious that frictional or other well known gear may be substituted.

I am aware that display stands having series of rotary shelves, arms or disks ha-



been in use prior to this invention, but I do not know that they have been so arranged that alternate arms or disks are caused to revolve in opposite directions, as herein specified which greatly enhances the value of the stand as a device for the display of articles of merchandise.

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

1. A display stand or rack, comprising a central, stationary, vertical rod or shaft having a bearing formed on its upper end, an elongated sleeve loosely surrounding said shaft and resting on the upper bearing end thereof, a series of sleeves concentrically arranged around said inner sleeve, said sleeves terminating at their ends in different horizontal planes, means for revolving alternate sleeves in opposite directions, and display devices carried by each sleeve, substantially as specified.

2. A display stand or rack, comprising a series of concentric sleeves, surrounding a central stationary rod or shaft upon which the inner sleeve has a loose bearing a display disk or series of arms carried by each sleeve, and means whereby alternate sleeves are re-

volved in opposite directions, substantially as specified.

3. A display stand, comprising a series of concentric sleeves, terminating at their ends in different horizontal planes, said sleeves having display devices carried thereby, and having each a gear wheel at its lower end, and means for engagement with said gear wheels, to effect the rotation of said sleeves, substantially as specified.

4. The display stand, comprising the stationary vertical rod or shaft, the central stationary sleeve loosely surrounding said rod, and having a bearing at its upper end thereon, a series of concentric sleeves of different lengths around said central sleeve, the display devices carried by said sleeves, a gear wheel on the lower portion of each sleeve and mechanism in engagement therewith, whereby alternate sleeves are rotated in opposite directions, substantially as specified.

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

MARK ANTHONY.

Witnesses:

PHILIP C. MASI,  
SAMUEL KER.