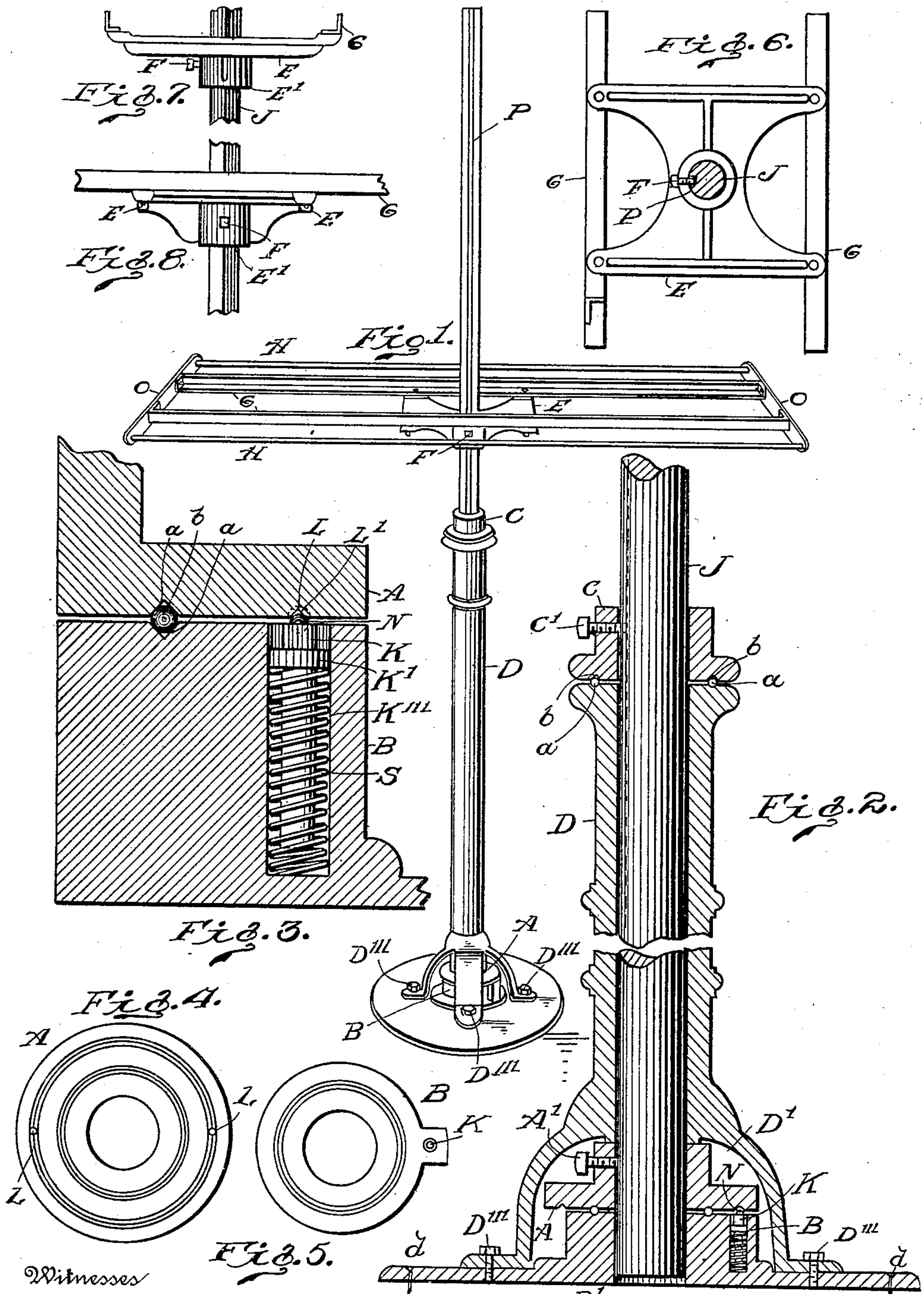


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 DISPLAY STAND.  
 APPLICATION FILED JAN. 7, 1910.

969,698.

Patented Sept. 6, 1910.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## DISPLAY-STAND.

969,698.

Specification of Letters Patent.

Patented Sept. 6, 1910.

Application filed January 7, 1910. Serial No. 536,854.

*To all whom it may concern:*

Be it known that I, FRANK J. HUGHES, a citizen of the United States, residing at Mansfield, in the county of Richland and State of Ohio, have invented certain new and useful Improvements in Display-Stands, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to stands for displaying merchandise of different kinds, and has special reference to that class of display stands in which a revolving rack or support is employed so that the goods may be readily visible at different points.

The invention has for its object to provide an improved display stand which is simple in construction, and effective in operation, and which may be readily set up.

With these and other objects in view, the invention comprises certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

Referring to the accompanying drawing Figure 1 is a view in perspective of a display stand constructed according to the present invention. Fig. 2 is an enlarged detail view of the support for the stand in vertical section, and a portion of the rotary spindle or shaft which carries the display stand. Fig. 3 is an enlarged detail view in vertical section of a portion of the base. Fig. 4 is a bottom plan view of a flanged sleeve forming one of the bearing members of the invention. Fig. 5 is a top plan view of the base of the machine. Fig. 6 is a detail plan view of a portion of the display stand showing its connection to the rotary spindle. Figs. 7 and 8 are detail side views showing portions of the display stand and its connection to the spindle.

In the construction of this invention a base is provided consisting of the flanged sleeve A located above the extended base portion B which is secured to a floor or support in any suitable manner as by means of screws *d* as shown. The central portion of the base B and the flanged sleeve portion A are inclosed in the chamber or hollow portion D' of a vertical cylindrical casing D, said hollow portion D' forming the base of the casing D and having a flange D'' secured to the base B by means of bolts D'''. Extending through the casing A and hav-

ing its lower end projecting into and extending through the flanged sleeve of A and projecting into a cylindrical opening B' in the base B is a vertical spindle or shaft J on which the display stand is mounted. Secured to the spindle J above the upper end of the casing D is the flanged sleeve C secured to the spindle J by means of a set screw C'. The flanged collar A is secured to the spindle J by means of a set screw A'. The flanged collars A and C are caused to turn with the spindle J by means of the set screws A' and C' engaging a vertical groove P in the spindle J. The flanged collar A preferably rests on ball bearings consisting of balls *b* in the runways of the grooves *a* in the base B and the flanged collar A. Similar ball bearings are provided between the flanged collar C and the upper end of the casing D. The display stand or frame proper on which the goods are to be arranged consists of an oblong frame composed of outer longitudinal rods, H, and the inner longitudinal angle bars G. The rods H and the angle bars G are connected at their ends to cross bars O, the said bars G being secured to an angular frame or support E which in turn is secured to the spindle J by means of the set screw F extending through a collar E' of the angular support E. It will be seen that by means of this construction the frame just described may be adjusted vertically on the spindle J by means of the set screw F. The goods displayed on said frame can be inspected and brought into all points of view by swinging in a circle the frame with its spindle J, the ball bearings permitting of its being readily turned.

In order that there may not be too free movement of the spindle and the display stand thereon, a device is employed to retard the too free movement of the spindle in the display stand. This, as shown in Figs. 2 and 3, preferably consists of a pin K having a collar K' and located in a vertical socket K'', the lower end of said pin K being normally at a little distance above the bottom of said socket. A coil spring S is mounted on said pin K and has its lower end resting against the bottom of said socket and its upper end bearing against the collar K'. The upper end of the pin K is provided with a socket in which is located a ball N that is adapted to ride in a



groove L' in the under side of the flange A. By means of the pressure of the spring S the ball N will be held against the outer side of the flanged collar A and the ball N springs into the socket L on the under side of the flange A, which stops the too free movement of the revolving parts and holds in position all revolving parts. The spindle is then turned to the next position with the same result.

It will be seen that by means of the foregoing construction the several parts of the display stand may be readily taken apart to be set up in another place.

Having described my invention, what I claim is:—

1. A display stand comprising a base, a spindle mounted on the same, display means carried by said spindle, a bearing sleeve carried by said spindle, anti-friction means interposed between said sleeve and said base, and means carried by said base for retarding the rotation of said sleeve.
2. A display stand comprising a base provided with a central opening, a spindle having one end in said opening, display means carried by said spindle, a sleeve carried by said spindle, anti-friction means interposed between said sleeve and said base, and spring-actuated means carried by said base for opposing rotation of said sleeve.
3. A display stand consisting of a base, a vertical spindle rotatably mounted in said base, a vertical casing secured to said base inclosing the lower end of said spindle, a flanged collar secured to said spindle at the upper and lower ends of said casing, having ball bearings between the end of the casing and collar, an elongated display stand centrally supported by means of an angular bracket on said spindle, and means for vertically adjusting the display stand on said spindle.
4. A display stand consisting of a base having a socket and a rotatable spindle having its lower end depending in said socket,

a vertical slot in the side of the spindle a flanged collar having a set screw securing it to the spindle, ball bearings between said collar and the base, a cylindrical casing inclosing the lower end of said spindle, having a lower chamber inclosing said collar, a collar at the upper end of said casing, ball bearings between said collar and the upper end of said casing, a set screw engaging the said groove in the spindle, and securing said collar thereto, and an elongated frame having a central supporting bracket secured to the spindle by means of said screw engaging said groove in the spindle.

5. A display stand consisting of a base having a central socket, a vertical spindle having its lower end projecting into said socket, a collar secured to said spindle above the base, ball bearings between said collar and said base, a friction device in said base and bearing against said collar, and an elongated display frame, consisting of longitudinal rods and angle bars and end cross bars connected thereto, and a central bracket support adjustably mounted on said spindle.

6. A display stand consisting of a base having a central socket, a vertical spindle having its lower end depending in said socket, a collar secured to said spindle, ball bearings between said collar and the base, a vertical movable spring actuated pin in said base having a ball in its upper end bearing against the under side of said collar, a casing inclosing the lower end of said spindle and secured to said base, an elongated display rack consisting of parallel rods and angle bars connected at their other ends by cross bars and a central bracket secured to and adjustably mounted upon said spindle.

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

FRANK J. HUGHES.

Witnesses:

OLIVER L. CUNNINGHAM,  
DANIEL S. HOOVER.