

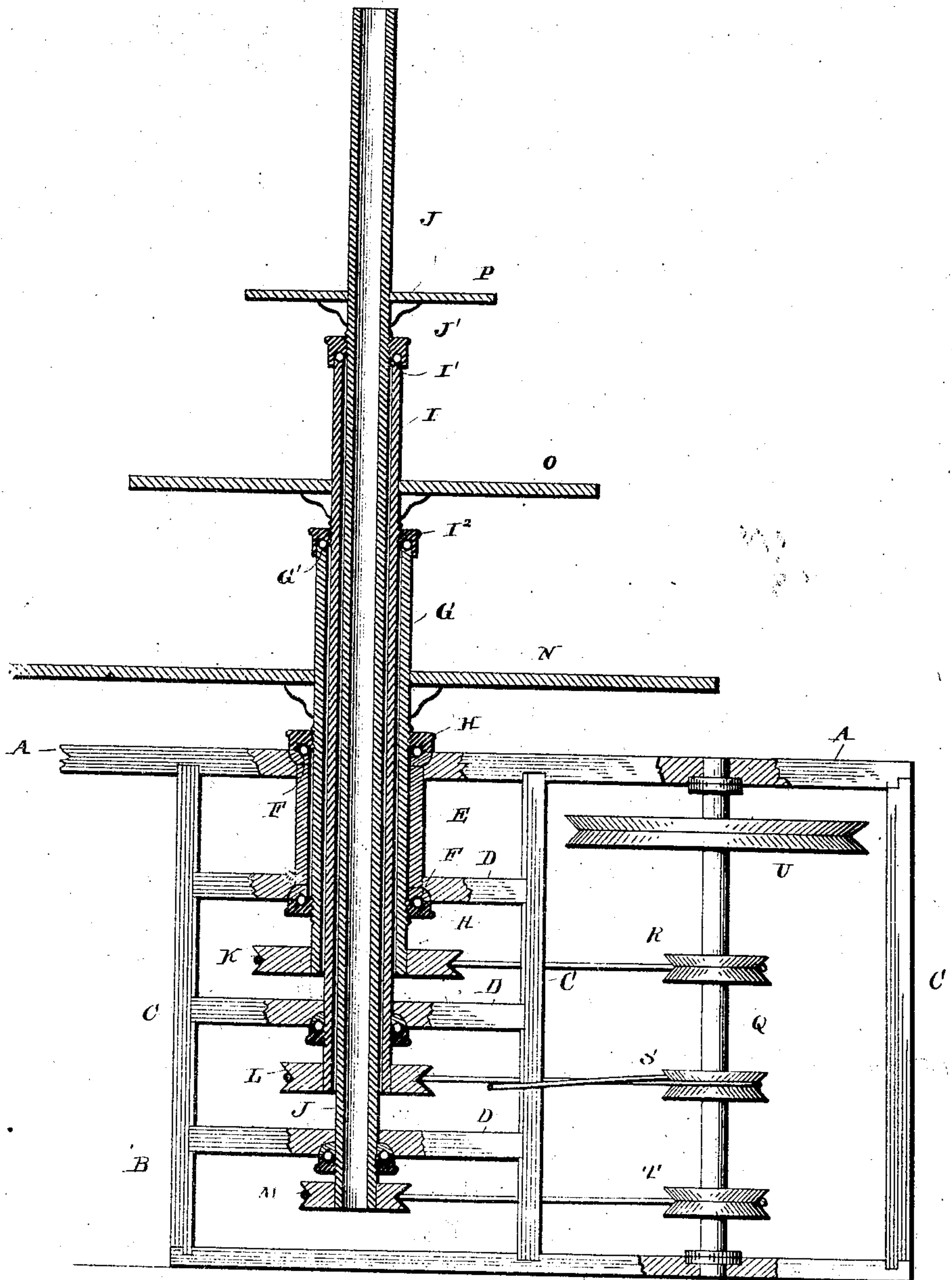
No. 721,806.

PATENTED MAR. 3, 1903

J. H. JAMES.  
DISPLAY RACK.

APPLICATION FILED DEC. 13, 1902.

NO MODEL.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOSEPH H. JAMES, OF FORT SCOTT, KANSAS.

## DISPLAY-RACK.

SPECIFICATION forming part of Letters Patent No. 721,806, dated March 3, 1903.

Application filed December 13, 1902. Serial No. 135,049. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH H. JAMES, a citizen of the United States of America, residing at Fort Scott, in the county of Bourbon and State of Kansas, have invented certain new and useful Improvements in Display-Racks, of which the following is such a full, clear, and exact description 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, forming a part hereof.

This invention has special reference to racks for displaying merchandise in show-windows; and it consists in certain novel features of construction, as will be hereinafter first fully described and then particularly pointed out in the claims.

The annexed drawing represents a display-rack embodying my improvements, partly in section and partly in elevation.

In carrying out my invention I form below the floor A of the show-window a supporting-frame B, consisting of vertical posts or standards C and horizontal beams D, secured to and supported by the said posts or standards. Extending between and secured rigidly in the floor of the show-window and the uppermost beam D is a stationary tube or hub E, having annular grooves or runways F formed in its ends. Inserted through this hub or tube is a hollow shaft G, having adjustable cones H, which are adapted to be turned up against the runways F, so as to secure the shaft within the hub or tube, antifric-tion-balls being inserted between the runways and the cones to permit the shaft to turn easily on or in the hub. Within the shaft G is a second shaft I, and within the shaft I is another shaft J, the several shafts having pulleys K L M secured to their lower ends. Additional shafts or fewer shafts may be employed at pleasure, the exact number being immaterial, as will be readily understood. The upper ends of the shafts G and I are formed with runways G' I', in which antifric-tion-balls are fitted, and adjustable cones I' J' on the shafts I J, respectively, are adapted to be turned down against these runways, so that each shaft is hung or supported on the upper end of the next outer shaft. Corresponding adjustable

cones are provided near the lower ends of the shafts to coact with runways in the beams D to hold the lower portions of the shafts steady, and thereby prevent vibration of the same. Upon the upper portions of the shafts G I J are secured shelves or disks N O P, upon which are placed the articles of merchandise to be displayed. The pulleys K L M on the lower ends of the shafts are connected by suitable belts with pulleys R S T, respectively secured on a counter-shaft Q, which is mounted in suitable bearings in the floor of the show-window and the bottom of the frame B and is provided with a driving-pulley U, to which power is applied from any suitable motor. In the preferred form of the device the pulleys R S T are of equal diameters; but the pulleys K L M are of different diameters, so that the shafts to which they are attached and the shelves carried by the shafts may be rotated at different speeds, and some of the connecting-belts may be crossed, if so desired, so that the shelves will move in opposite directions.

It will be readily seen that I have provided a very simple rack by which merchandise may be displayed in a show-window and by being constantly rotated will attract the attention of passers-by. The several shafts are firmly supported against vibration and at the same time are permitted to run easily and without noise.

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

1. In a display-rack, the combination with a supporting-framework, of a hub secured rigidly therein, a series of concentric shafts mounted in said hub, the outermost shaft being supported by the upper end of the hub and each inner shaft being supported by the upper end of the next outer shaft, means for rotating the shafts independently, and display-shelves carried by the shafts.

2. In a display-rack, the combination with a supporting-framework, of a hub secured rigidly therein and having raceways formed in its ends adapted to receive antifric-tion-balls, a shaft inserted through said hub and having a raceway formed in its upper end, cones mounted on said shaft adapted to be

turned up to the hub to secure the shaft therein, a raceway in the framework below the hub, a second shaft mounted concentrically within the first-mentioned shaft, cones  
5 on said second shaft adapted to be turned up to the raceway in the framework and the upper end of the outer shaft, display-shelves carried by the shafts, pulleys on the lower ends of the shafts, driving-gearing, and con-

nections between the gearing and said pulleys.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOSEPH H. JAMES.

Witnesses:

H. A. PRITCHARD,  
NORMAN E. HILL.