N. H. SANDE.

STORE SHELF.

APPLICATION FILED JULY 7, 1915.

1,213,026. Patented Jan. 16, 1917.

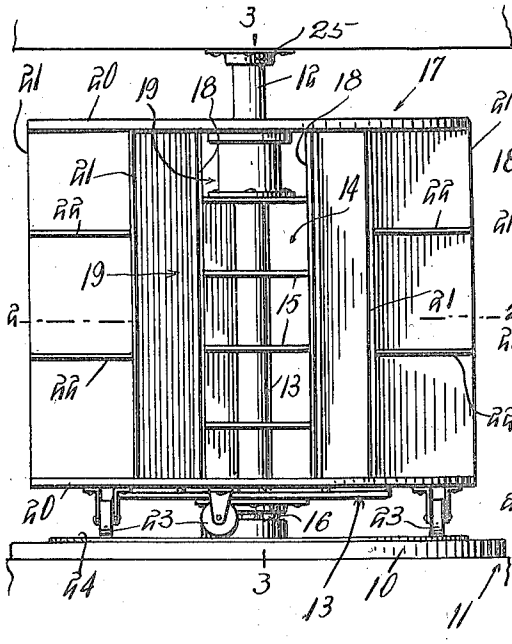


FIG. 1.

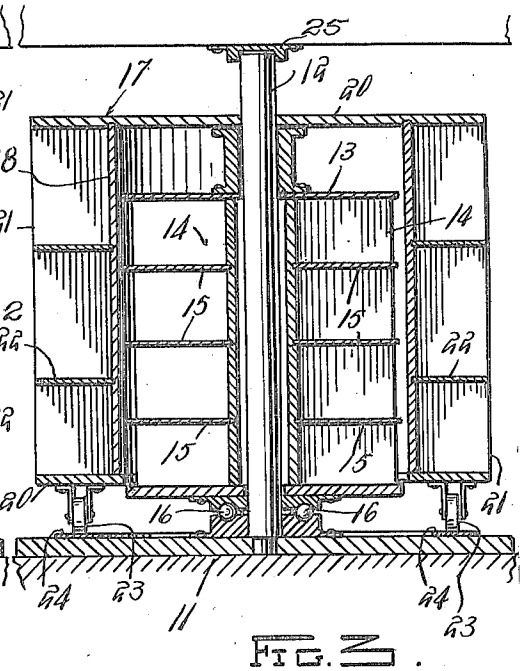


FIG. 3.

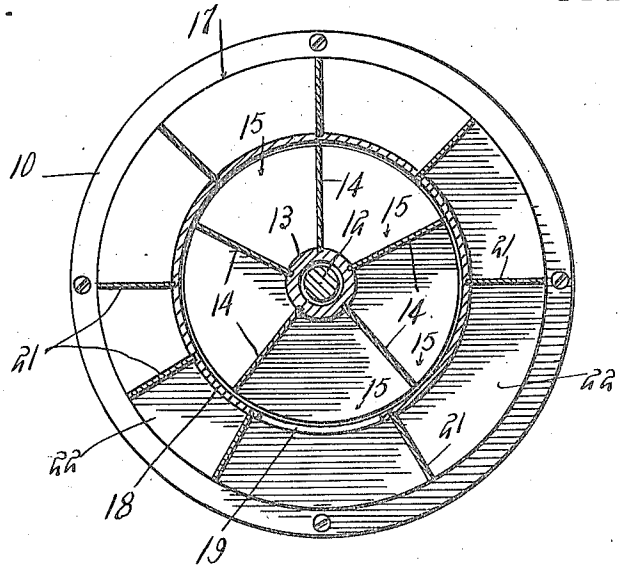


FIG. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

NELS H. SANDE, OF SCARVILLE, IOWA.

STORE-SHELF.

1,213,026. Specification of Letters Patent. Patented Jan. 16, 1917.

Application filed July 7, 1915. Serial No. 38,565.

To all whom it may concern:

Be it known that I, NELS H. SANDE, a citizen of the United States, residing at Scarville, in the county of Winnebago, State of Iowa, have invented certain new and useful Improvements in Store-Shelves; and I do hereby 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.

This invention relates to improvements in store shelves.

One object of the invention is to provide a store shelf or a system of shelves whereby economy in space in the store, and facility in reaching articles from the shelf are readily accomplished.

Another object is to provide a revolving system of shelves whereby a clerk can readily reach and remove a greater number of articles from the shelves from a given point than with the ordinary longitudinal wall shelves.

Other objects and advantages will be apparent from the following description when taken in connection with the accompanying drawing.

In the drawing: Figure 1 is an elevation of my improved shelving, Fig. 2 is a horizontal section on the line 2—2 of Fig. 1, and Fig. 3 is a vertical section on the line 3—3 of Fig. 1.

Referring particularly to the accompanying drawing, 10 represents a circular platform which is suitably mounted on the floor 11 of the store. Extending vertically from the center of this platform, and rigidly secured thereto is a post or shaft 12. Mounted to rotate on this shaft is a drum 13, said drum having the radially extending vertical walls 14 between which and connected therewith are the horizontal shelves 15. Suitable anti-friction bearings 16 are disposed between the bottom of this drum and the platform 10. Disposed concentrically around this drum, is a second larger drum 17 consisting of the inner vertical circular wall 18 having a vertical longitudinal opening 19, the top and bottom walls 20, and the vertical connecting partitions 21. Extending between and connecting these vertical partitions are the horizontal shelves 22. Carried by the bottom of this outer drum are the rollers 23 which engage on the circular track 24 carried by the platform 10.

This device may be mounted at suitable points out on the floor of the store, or may be mounted within the wall, the principal idea being to facilitate the reaching of articles from the shelves without the necessity for ladders and walking from one end of the store to the other, as with the ordinary wall shelving. The shelves can be of any height, or the drums of any diameter to suit the user, the principal feature being to lighten the burden of the store-keepers and clerks. The arrangement of the two drums provides for the storage of a large quantity of stock, access to the inner drum being had through the opening 19, it being an easy matter to rotate this drum by reaching through the said opening. The drums are mounted for separate rotation independently of each other so that when one drum is turned, the other drum will not be affected thereby, but will remain stationary.

The shaft 12 is adapted to extend up to the ceiling, and has its upper end rigidly held in a bracket 25 suitably secured to the ceiling. Thus the shaft is firmly held in vertical alinement so that there will be no tendency of the shaft to swing to one side under the weight of the drums.

What is claimed is:

A store shelf device comprising a vertical shaft, a drum including a central sleeve rotatably embracing the shaft, radial shelves and vertical partitions emanating from the sleeve, a second drum including an inner circular wall disposed concentrically around the first drum and having a vertical opening the entire length of said drum to permit access to the inner drum, vertical partitions and horizontal shelves extending outwardly from the said circular wall, casters support-

ing the outer drum, ball bearings supporting the inner drum, a disk disposed at the top of the outer drum and forming a part thereof, said disk receiving the said shaft therethrough, and a spacing sleeve on the shaft between the said disk and the top of the inner drum.

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

NELS H. SANDE.

Witnesses:
H. N. SANDE,
A. MELVIN LARSON.