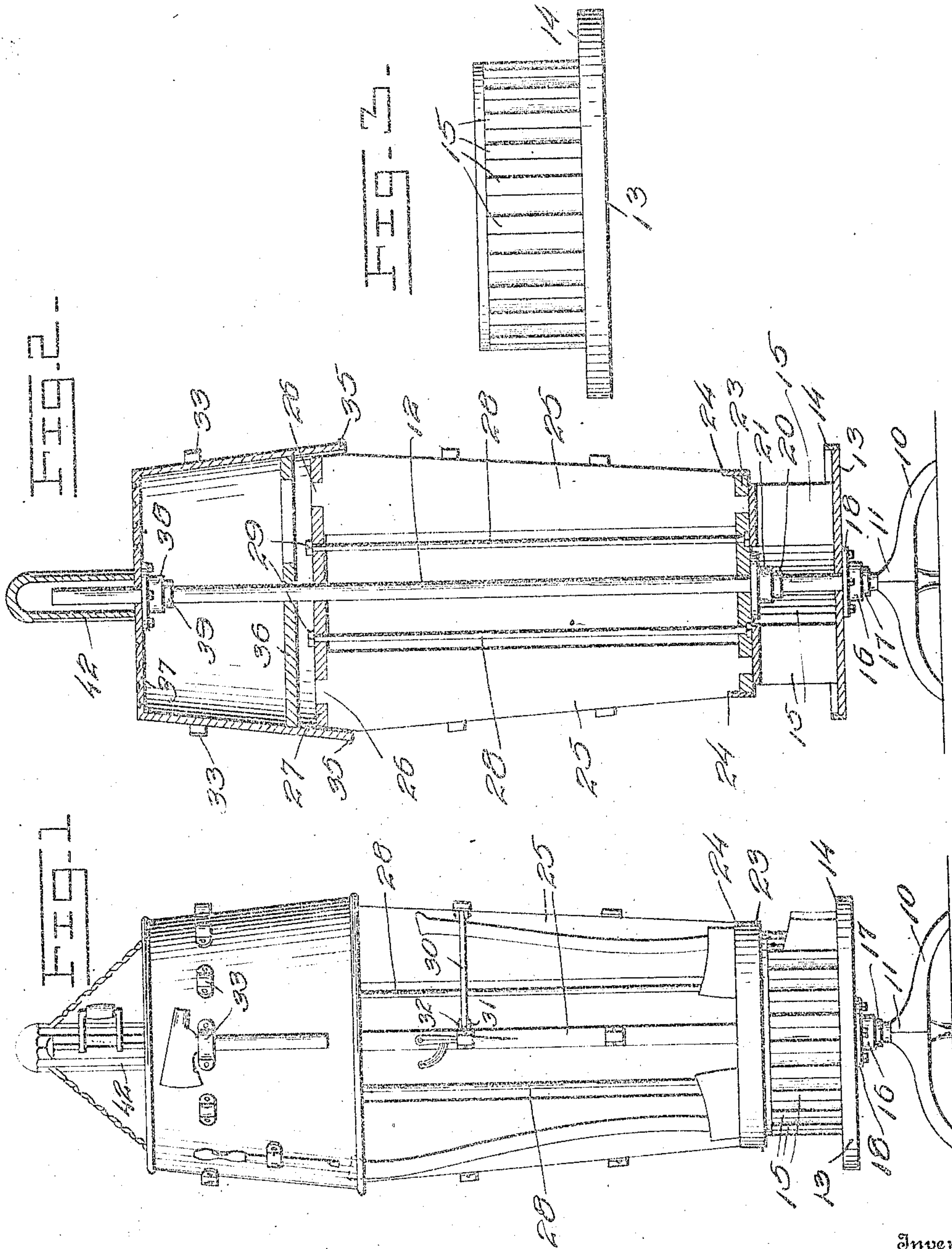


J. L. COFIELD.
 BALL BEARING TOOL HOLDING AND DISPLAY RACK.
 APPLICATION FILED MAY 19, 1909.

Patented Jan. 4, 1910.
 2 SHEETS—SHEET 1.

945,223.



Inventor

J. L. Cofield,

Witnesses

E. L. Chandler
E. L. Chandler

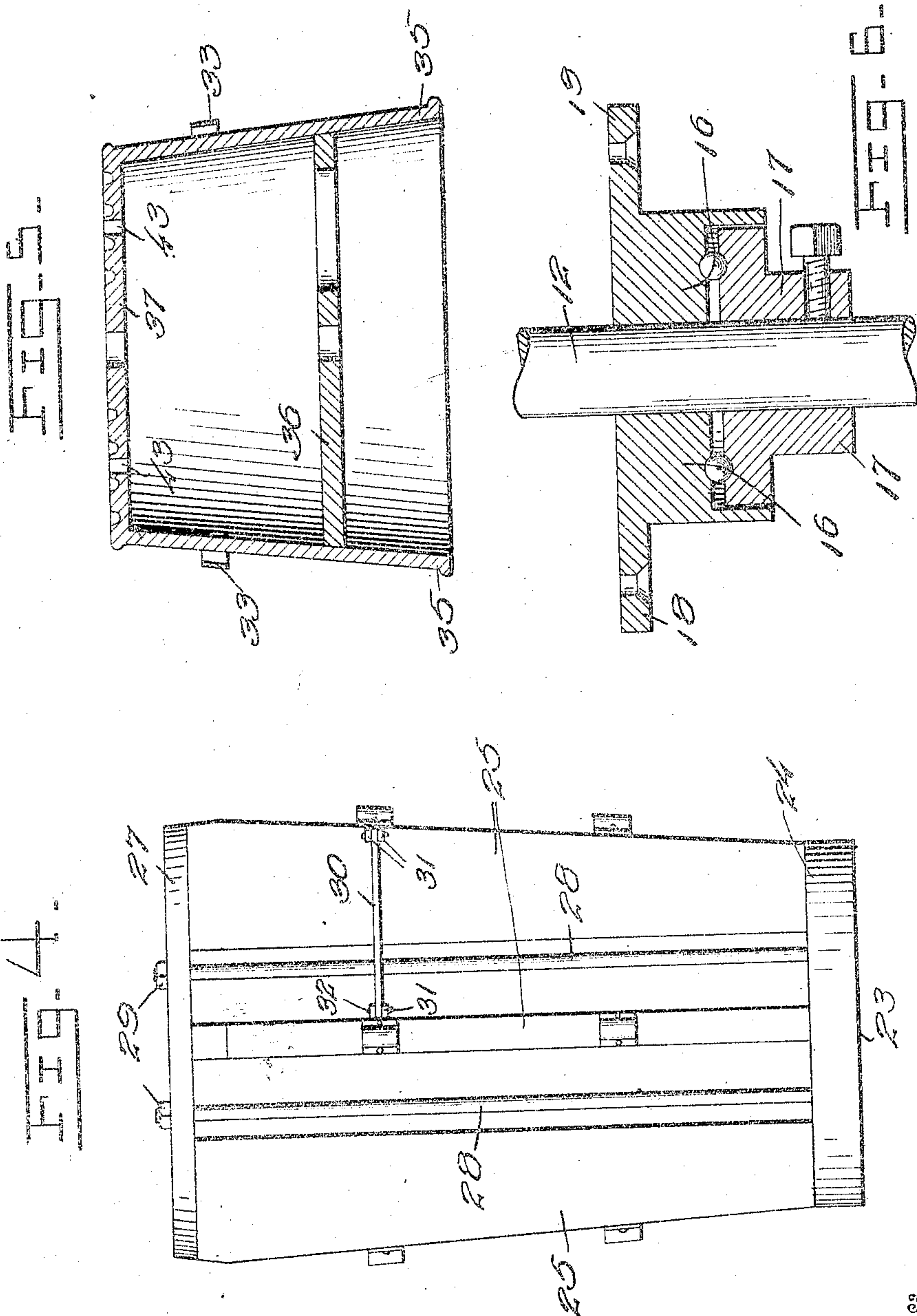
Woodward & Chandler

Attorneys

J. L. COFIELD.
 BALL BEARING TOOL HOLDING AND DISPLAY RACK.
 APPLICATION FILED MAY 19, 1909.

Patented Jan. 4, 1910.
 2 SHEETS—SHEET 2.

945,223.



Witnesses
[Signature]
 E. L. Chandler

Inventor
J. L. Cofield,
Woodward & Chandler
 Attorneys

UNITED STATES PATENT OFFICE.

JOHN L. COFIELD, OF MOUNT VERNON, ILLINOIS.

BALL-BEARING TOOL HOLDING AND DISPLAY RACK.

945,223.

Specification of Letters Patent.

Patented Jan. 4, 1910.

Application filed May 19, 1909. Serial No. 496,963.

To all whom it may concern:

Be it known that I, JOHN L. COFIELD, a citizen of the United States, residing at Mount Vernon, in the county of Jefferson and State of Illinois, have invented certain new and useful Improvements in Ball-Bearing Tool Holding and Display Racks, of which the following is a specification.

This invention relates to certain new and useful improvements in revolving display cabinets.

The primary object of my invention is to provide a three section, revolving ball-bearing holding and display cabinet.

A further object of my invention is to provide a cabinet that shall be neat and sightly and in which ax heads, hatchets and other cutting and edge tools may be held in a neat and compact form, and in such a way that the same may be readily shown to a prospective purchaser.

With these and other objects in view, the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described and particularly pointed out in the appended claims, it being understood that changes in the specific structure shown and described may be made within the scope of the claims, without departing from the spirit of the invention.

In the drawings forming a part of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 shows an elevation of a display cabinet embodying my invention. Fig. 2 is a longitudinal sectional view thereof, Fig. 3 shows an enlarged detached detail of the lower turntable as used in my invention. Fig. 4 shows an enlarged detail of the rack, Fig. 5 shows an enlarged detached detail of the drum, Fig. 6 shows a central sectional view of one of the roller bearings.

Ordinarily, hardware dealers have their wares in packages or drawers, and in order to display the same to a possible purchaser, the packages must be unwrapped, or the drawer is opened and the tools removed one at a time. To overcome this objection, I provide a cabinet in which the various kinds of tools in part are held and in which they may be arranged according to their grade or price. The tools and articles are further secured to or held upon a revolving table or drum, so that each and every tool or article may be slowly brought before the respective

purchaser in a manner best calculated to display the article.

In the drawings, 10 designates the foot or base of a suitable main shaft which is in the form of a tripod from the head 11 of which extends the shaft 12, which may be in the form of a gas or water pipe. This shaft is made to revolvably support a lower display table, and intermediately holds a rack and an upper arm. The table comprises the circular member 13 having the upwardly extending flange 14, preferably in the form of a metal band held by means of suitable screws. Vertically secured to the table 13, and radially positioned thereon are a plurality of battens 15, which are arranged to form wedge shaped stalls or pockets of a size to snugly admit the insertion of an ax head. This table is provided with a ball bearing 16 resting upon the collar 17 secured to the upper end of the base or tripod 10 as shown. By means of the flange 18, the table 13 is secured to this ball bearing so that this table can be freely rotated. Upon this table and within the pockets are held the ax heads without handles, the flange 14 preventing the ax heads from slipping out of the stalls.

Secured to the main shaft 12 at a suitable point above the table is the collar 20 supporting the ball bearing 21, and this ball bearing in turn is secured to and supports the roller circular base 23 of a rack as used in my invention. This rack below is also provided with a circumscribing flange 24, while extending from the base are the four panels 25, provided with the projecting tenons 26 arranged within suitable mortises of the case as shown. Held to the upper end of the panels 25, is the top 27 which is also circular and into which the tenons 26 of the panels fit so that the base 23 and the top 27 are securely connected by means of these panels 25. To further strengthen this structure I provide four tie rods 28 which fasten to the rear of the panels 25 and pass through suitable openings within the base and top and are secured by means of the nuts 29. Both the base and the top have a central opening through which the main shaft 12 projects. The length of these panels 25 is somewhat greater than the length of the longest ax handle usually sold, and this rack is especially intended to hold ax heads provided with handles in the manner shown in Fig. 1. As a certain set of axes

are known as boys' sizes, and these are much shorter than those used by adults, I provide a guide rod 30, having securing ears 31 through which suitable screws 32 pass so that if short ax handles are inserted behind this rod they are securely held within the rack. The flange 24 holds the ax heads upon the base, while at the upper end the long handled axes are held in place by means of the lower projecting edge 35 of a drum to the outer surface of which tools are secured by means of suitable collars 33. The drum is provided with the bottom 36 and the top 37. To the under surface of the top 37 is secured a ball bearing 38 which is supported by means of a collar 39 fixed to the main shaft 12. The bottom 36 has a suitable opening so that the ball bearings may be inserted into a drum. This drum is slightly conical with its largest base below, while its display rack is also conical with its largest base however, at the upper end as shown. To this drum are secured hatchets, hammers and other like tools by means of suitable collars 33 and as this drum is revolvably held the same can be rotated to bring the several tools secured thereto into view. As shown the upper surface of the rack 37 is corrugated while secured to the upper projecting end of the main shaft 12 is a post 42, which post is also lengthwise corrugated and this post is carried by the drum and rotates therewith. The top 37 is also provided with a plurality of openings 43 and within these openings and extending into the drum are suitable tools such as brace bits and the like. The corrugated top 37 in combination with the corrugated post 42 is nicely adapted to hold brace bits, augers and the like in an inclined position, and any suitable angle may be given to these tools in inserting the lower ends within the required corrugation. The tools cannot slip forward or backward because of the corrugated base nor can they become detached from the post owing to the lengthwise corrugations as shown. By this means I provide a three section display cabinet the upper section of which is arranged to provide a corrugated display surface as has been set forth, so that suitable tools and other hardware specialties may be supported by means of this stand in four tiers.

A display rack constructed as herein described will form a convenient and compact means for holding a large number of tool and other hardware specialties so that the same can be readily and quickly brought within reach, and also forming a neat arrangement for displaying the goods. The cutting edges of the ax heads are all directed inward, so that they are protected

while held in a position permitting their ready removal and tags disclosing the grade or price or both of the articles carried by the rack can be affixed to the same, so that the sections are revolved the grade and price can slowly be brought before the purchaser as well as the article itself.

As shown the lower edge of the drum revolves about the upper ends of the long ax handles.

Having thus described my said invention, what I claim as new and desire to secure by United States Letters Patent is:

1. The combination in a device of the character described, of a shaft, a table revolvably supported by said shaft, a plurality of radially positioned battens forming V-shaped pockets secured to said table, a circular base, a bearing secured to said shaft supporting said base, a top, panels connecting said base to said top, said shaft extending through said top, an upwardly extending circumscribing flange secured to said base, a drum revolvably carried by said shaft having its lower edge projecting below said top, the upper end of said drum being corrugated, and a corrugated post secured to said drum and held upon said shaft.

2. The combination in a device of the character described, of a shaft, a table supported by said shaft, a plurality of readily positioned battens forming V-shaped pockets secured to said table, a circular base, a bearing secured to said shaft, supporting said base, a top, panels connecting said base to said top, said shaft extending through said top, an upwardly extending circumscribing flange secured to said base, and a drum revolvably carried by said shaft having its lower edge projected below the top, the upper end of said drum being corrugated.

3. In combination a vertically held shaft, a table revolvably supported by said shaft, a plurality of readily positioned fastenings forming V-shaped pockets secured to said table, a circular base held above said table, a bearing secured to said shaft supporting said base, a top, panels connecting said base to said top, said shaft extending through said base and top, a drum revolvably carried by said shaft having its lower edge projected below said top, the upper end of said drum being corrugated and provided with suitable openings, and a corrugated post secured to said drum and held to said shaft.

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

JOHN L. COFIELD.

Witnesses:

R. L. STRATTAN.
K. T. STRATTAN.