C. C. FIFIELD.

DISPLAY RACK FOR LINOLEUM, SCREEN WIRE, AND THE LIKE.

APPLICATION FILED JAN. 6, 1917.

1,259,007.

Patented Mar. 12, 1918.

2 SHEETS—SHEET 1.

Fig. 2.

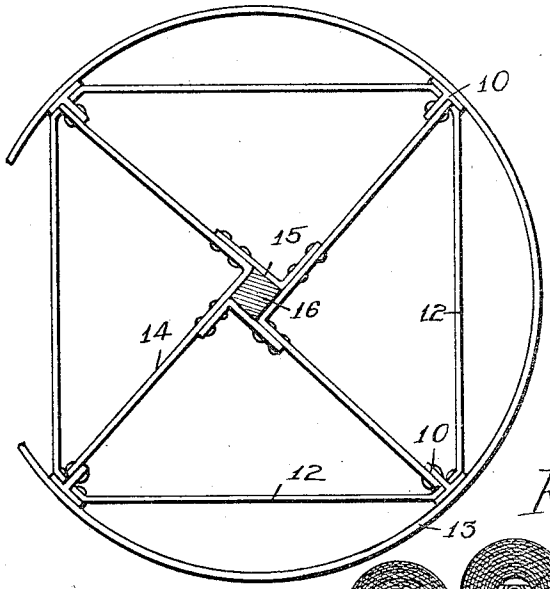


Fig. 3.

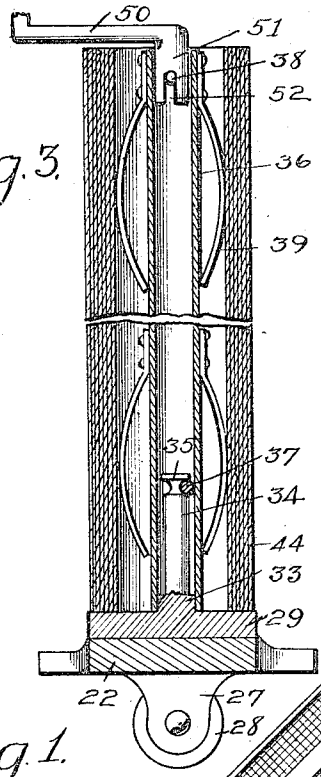
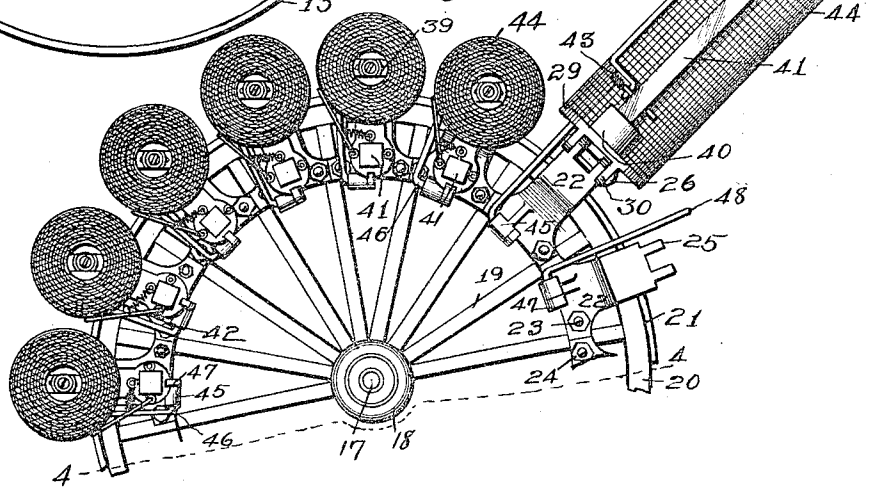


Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 4.

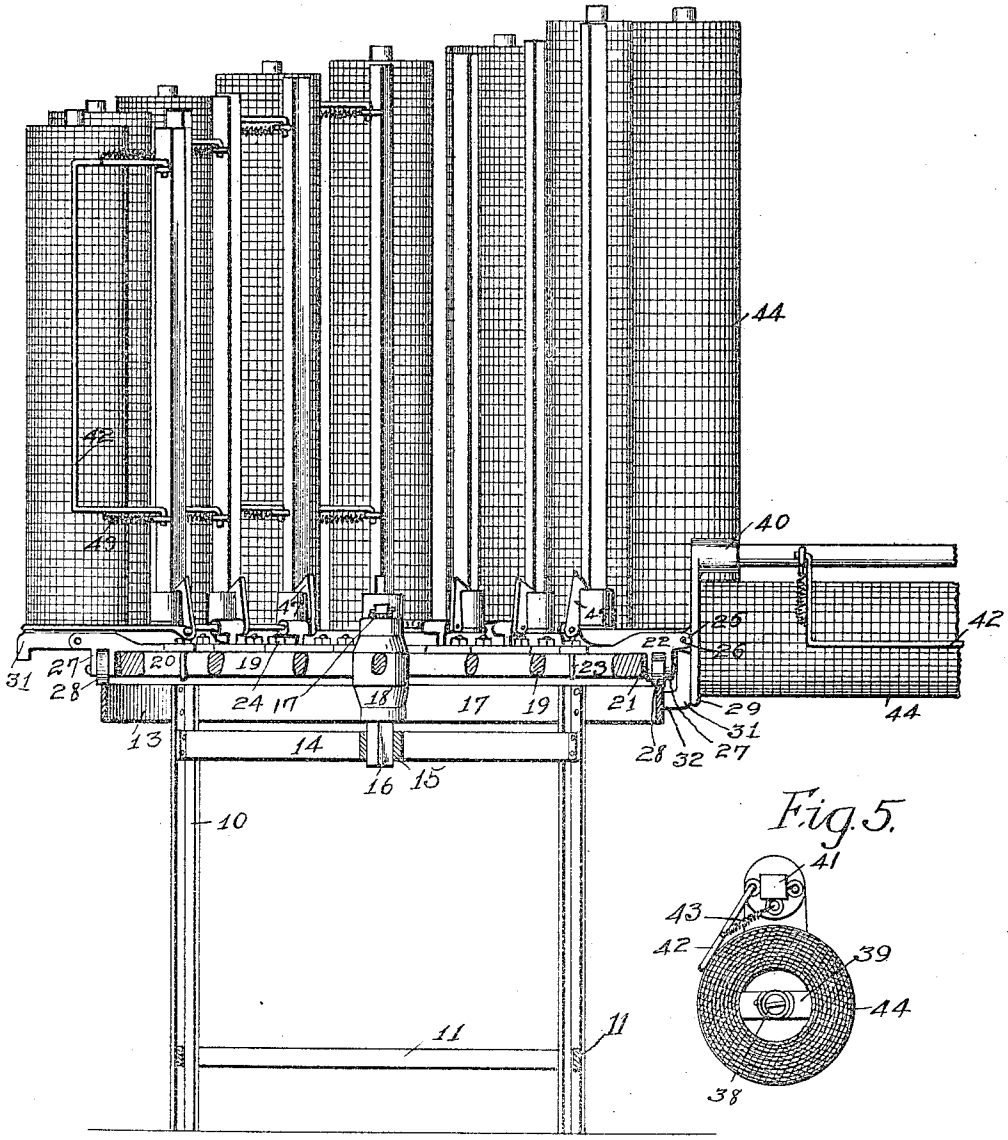


Fig. 5.

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UNITED STATES PATENT OFFICE.

CHESTER C. FIFIELD, OF DES MOINES, IOWA.

DISPLAY-RACK FOR LINOLEUM, SCREEN-WIRE, AND THE LIKE.

1,259,007. Specification of Letters Patent. Patented Mar. 12, 1918.

Application filed January 6, 1917. Serial No. 140,963.

To all whom it may concern:

Be it known that I, CHESTER C. FIFIELD, a citizen of the United States, and resident of Des Moines, in the county of Polk and State of Iowa, have invented a certain new and useful Display-Rack for Linoleum, Screen-Wire, and the like, of which the following is a specification.

The object of my invention is to provide a display rack of simple and inexpensive construction adapted for holding rolls of screen wire, linoleum, oil cloth, and the like, and so constructed and arranged that the rolls of goods may be moved to different positions for properly displaying the goods.

A further object is to provide such a device having means for supporting rolls of goods in upright position, the parts being so constructed and arranged that the rolls may be tilted downwardly to substantially horizontal position for displaying the goods and cutting off pieces from the rolls.

My invention consists in the construction and arrangement of the parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings in which:

Figure 1 shows a top or plan view of a part of a display rack embodying my invention.

Fig. 2 shows a plan view partly in section of the frame and annular track.

Fig. 3 shows a vertical, sectional view through one of the rolls of goods, and the supporting member therefor.

Fig. 4 shows a vertical, sectional view taken on the line 4—4 of Fig. 1, and

Fig. 5 shows a top or plan view of one of the rolls of goods and the supporting member therefor, in upright position.

In the accompanying drawings, I have used the reference numeral 10 to indicate the upright legs or frame members comprising a part of my display rack.

The frame members are connected near their lower ends by braces 11, and near their upper ends by horizontal braces 12. The frame may be substantially rectangular in form, as shown in Fig. 2.

At the outer portion of the frame there is mounted on the outside thereof an annular ring or track 13. Extending inwardly toward the center of the frame from the corners thereof, at the upper portion of the frame, are supporting frame members 14 which are connected together at their inner ends and support a central bearing member 15, in which is mounted an angular axle member 16, having at its upper end a spindle 17 on which is mounted a hub 18 from which extend radial spokes 19. The spokes 19 are connected at their outer ends by a felly 20 on which may be mounted a metal rim 21.

It will be seen that the wheel formed by the hubs, spokes and felly just described, may rotate on the spindle 17.

Mounted upon each adjacent pair of spokes is a plate 22, portions of which rest upon two spokes as shown in Fig. 1. Each plate 22 has a portion resting on the felly 20. The plates 22 are secured to the spokes in succession around the wheel above described, by means of U-bolts 23 and nuts 24.

At the outer edge of each plate 22 are parallel outwardly extending ears 25 having openings whereby bearings are formed for short shafts 26.

Extending downwardly from each plate 22 outside the wheel above described, is a pair of parallel ears 27 between which is rotatably supported a roller 28, which travels on the annular track or ring 13.

Resting above each plate 22 is a disk 29 having a pair of downwardly projecting ears 30 through which a shaft 26 is extended for pivotally mounting the disk 29 on the plate 22.

Each disk 29 has an arm 31, which when the disk is in horizontal position extends laterally outwardly from the center of the wheel and has at its outer end a downward extension 32. When the disk is moved on its pivot member 26, from horizontal position to vertical position, as shown at the right-hand portion of Fig. 4, the extension 32 engages the track 13 and limits the swinging movement of the disk 29, as clearly shown in said Fig. 4.

Each disk 29 is provided in its outer portion with an upwardly extending cylindrical member 33 from which there extends upwardly a shaft or cylinder 34 of smaller diameter than the cylindrical member 33. The shaft 34 is provided near its upper portion with an annular groove 35.

The cylindrical member 33 and shaft 34, in the case of each roll support, as I may call the parts now being described, is re-

ceived within the lower end of a tube or cylinder 36. A pin 37 is extended through each tube 36, and is received in the groove 35 for locking the tube 36 against removal from the disk on which it is mounted.

A similar pin 38 is extended through the upper portion of each tube 36. Mounted on each tube 36 is a plurality of curved springs 39, with their convex surfaces outward, as shown in Fig. 3, for holding the goods out and away from the tube 36, and causing the goods to retain their form in the roll. Each disk 29 has an extension 40, extending inwardly radially of the wheel when the disk is in its horizontal position, as shown in Fig. 1. Extending upwardly from each extension 40 is a bar 41. Pivotally connected with each bar 41 is a bail or the like 42. Secured to each bail 42 and to each bar 41 is a coil spring 43, adapted to hold the central portion of the bail yieldingly against a roll of screen wire 44, or other goods mounted on the roll support.

Extending inwardly from each plate 22 is a bearing 45 on which is mounted a horizontal shaft 46, formed on one end of which is a hook or engaging member 47 and formed on the other end of which is an arm 48 extending outwardly from the center of the wheel, to a position convenient of access to the user of the device.

In the practical operation and use of my improved display rack, the roll of goods 44 is mounted on the roll support outside the springs 39, as clearly illustrated in Fig. 3. The roll is prevented from unrolling by the spring controlled bail 42. Each roll is normally left in its upright position where the hook member 47 engages the extension 40, and prevents the tilting of the roll. It will be seen that the wheel may be rotated for displaying any of the goods mounted on the roll support.

When any particular piece of goods is selected, the user may raise the rod 48, thereby releasing the hook 47 from engaging the extension 40, whereupon the roll 44 in question may be lowered to horizontal position, as shown at the right-hand side of Fig. 4. The member 31 and extension 32 prevent downward movement of the roll below horizontal.

As much of the goods may be drawn from the roll, as is desired, and cut off, whereupon the roll support with the roll thereon may be raised to upright position.

The edges of the hook members 47, which are engaged by the extension 40, during the movement of the roll to upright position are beveled, as shown, for causing the hooks to automatically move to position for engaging the extensions 40.

For rolling up any part of the goods which may have been pulled out, I provide a crank handle 50, having at one end a downward extension 51, provided with a slot 52. The extension 51 is designed to be received in the upper end of the tube 36 with the pin 38 received in the slot 52.

It will be noted that the tube 36 can be rotated on the roll support, on account of the springs 39 for carrying with it the roll of goods for permitting winding or unwinding of the goods.

Changes may be made in the construction and operation of my improved display rack without departing from the essential features and purposes, thereof, and it is my intention to cover by this application any modifications in structure or use of mechanical equivalents, which may be included within the reasonable scope of the claims of my patent.

I claim as my invention:

1. In a device of the class described, a frame, a wheel rotatably mounted thereon having a hub, spokes and a rim, a track below said wheel and spaced beyond the periphery thereof, plates secured to the wheel having portions projecting beyond the rim, rollers mounted in said portions and adapted to travel on said track, and roll supports pivotally mounted on said plates.

2. In a device of the class described, a supporting frame, a rotating member mounted thereon, a plurality of supporting members on said rotating member, a roll support pivotally mounted on each supporting member, each roll support having a central upwardly extending member, and means for yieldingly gripping the outer surface of a roll of goods on said roll support, and means for rotating each central upwardly extending member in any position of the roll support.

Des Moines, Iowa, December 23, 1916.

CHESTER C. FIFIELD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."