

July 24, 1928.

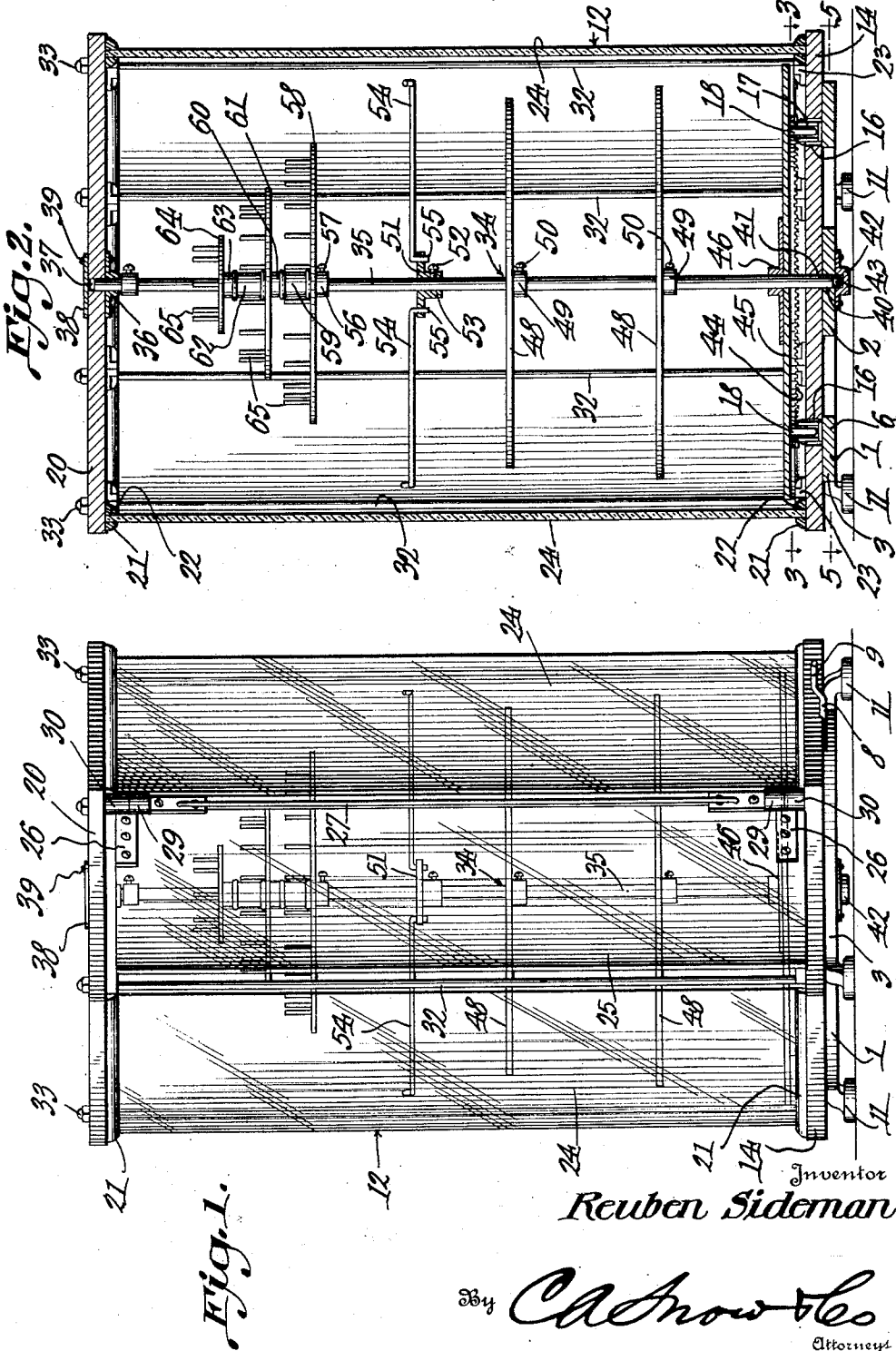
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SHOW CASE

Filed May 22, 1925

2 Sheets-Sheet 1



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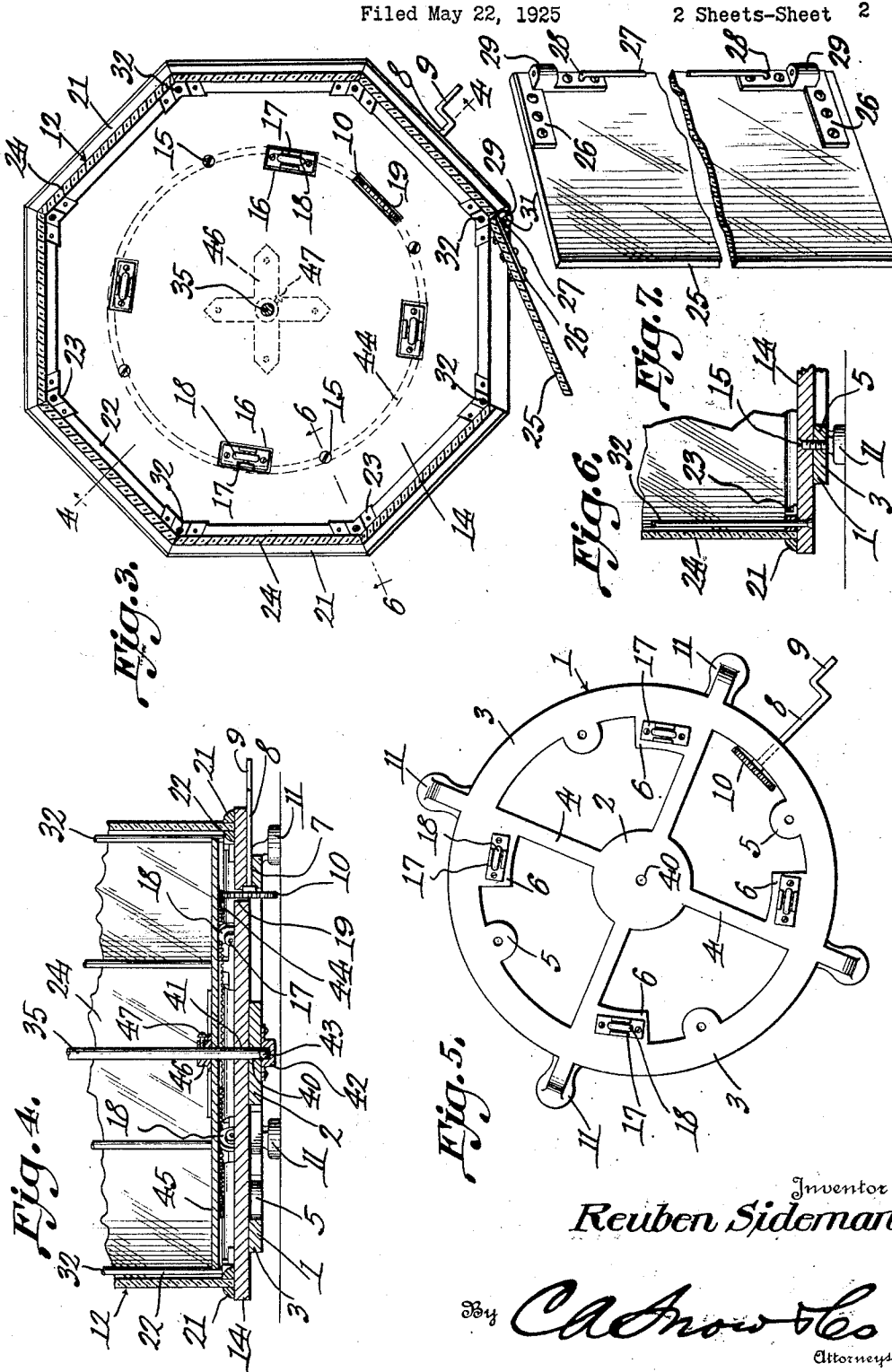
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

REUBEN SIDEMAN, OF SAN FRANCISCO, CALIFORNIA.

SHOW CASE.

Application filed May 22, 1925. Serial No. 32,154.

This invention has for its object the provision of a novel show case wherein spools of thread, bonnets, neck ties and the like may be displayed. The invention aims to improve the structural features of the device, and to provide novel means whereby a rack which carries the articles to be displayed may be rotated so as to bring any of the articles desired, to the doorway of the case.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that sort to which the invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction, hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in elevation, a show case constructed in accordance with the invention; Figure 2 is a vertical longitudinal section wherein parts appear in elevation; Figure 3 is a section taken about on the line 3—3 of Figure 2; Figure 4 is a section on the line 4—4 of Figure 3; Figure 5 is a section on the line 5—5 of Figure 2, the view being, in substance, a top plan of the base; Figure 6 is a section on the line 6—6 of Figure 3; Figure 7 is a perspective showing one of the doors.

In carrying out the invention, there is provided a base 1. The base 1 comprises a hub 2, a rim 3, and spokes 4 connecting the hub and the rim. Wings 5 extend inwardly from the rim 3. There are extensions 6 where the spokes 4 join the rim 3. The rim 3 has a bearing groove 7. A shaft 8 is journaled in the bearing and is horizontally disposed. At its outer end, the shaft 8 carries a crank 9 of suitable means whereby the shaft may be rotated. A pinion 10 is secured to the inner end of the shaft 8 and stands vertically. The rim 3 has depending feet 11.

The body of the case is denoted by the numeral 12. The body 12 includes a bottom 14. Securing elements 15, such as screws, connect the bottom 14 with the wings 5 of the base 1. There are openings 16 in the bottom 14. The openings 16 receive brackets

17 secured to the extensions 6 of the base 1. Vertically disposed wheels 18 are journaled on the brackets. The bottom 14 has a slot 19, through which the gear wheel or pinion 10 extends. The body 12 of the case includes a top 20. Outer cleats 21 are secured to the undersurface of the top 20 and to the upper surface of the bottom 14. Inner cleats 22 are secured by angle brackets 23 to the under surface of the top 20 and to the upper surface of the bottom 14. Between the cleats 21 and 22 are located the side plates 24 of the case. The side plates 24 preferably are made of glass. The door 25 of the case preferably is made of glass also. Angle brackets 26 are secured to two of the corners of the door 25. The angle brackets are connected by a tie rod 27 having angularly disposed ends 28 mounted in the vertical arms of the angle brackets 26. The angle brackets 26 are supplied with projecting sockets 29. The sockets 29 are disposed between sockets 30 extended downwardly from the top 20 and upwardly from the bottom 14. Pivot elements 31 are mounted in the sockets 29 and 30, and, thus, the door 25 is mounted for swinging movement. As shown in Figure 3, the outer cleats 21 are removed, opposite to the door 25, so that the door can swing outwardly the inner cleats 22 remaining, to serve as a stop for the door. Securing elements 32, such as long bolts, extend upwardly through the bottom 14, through the inner cleats 22 and through the top 20. Ornamental nuts 33 are threaded on the upper ends of the securing elements 32 and engage the top 20 of the case. The construction, obviously is such that the bottom 14 and the top 20 are held on the ends of the side plates 24, to form a rigid transparent case.

Within the body of the device is located a rotatable rack 34. The rack 34 comprises a vertical shaft 35. The upper end of the shaft 35 is journaled in a bearing 36 secured to the under surface of the top 20. The shaft 35 extends upwardly into an opening 37 in the top 20. The opening 37 is shielded by a cover plate 38. The cover plate 38 is pivoted at 39 to the top 20 of the case. The lower end of the shaft 35 is journaled in an opening 40 in the hub 2 of the base 1, and in an opening 41 in the bottom 14 of the case. A seat 42 is secured to the lower surface of the hub 2 of the base 1. A ball bearing 43 is rotatable in the seat 42. The element 43

serves as a thrust bearing for the lower end of the shaft 35. A circular rack 44 engages with the pinion 10. The rack 44 is attached to the base plate or platform 45 of the rotatable member. The shaft 35 passes downwardly through the base plate 45 of the rotatable member. The base plate 45 is connected to the shaft 35, removably, by a cruciform bracket 46 (Figure 3), held on the shaft for a set screw 47 located in the hub of the bracket. Above the base plate 45 are located shelves 48. Set screws 50 are threaded into the hubs 49 on the shelves 48 and hold the shelves on the shaft 35 for adjustment longitudinally of the shaft. A support 51 is disposed on the shaft 35 above the uppermost shelf 48. A set screw 52 located in the hub 53 of the support 51, moves the support on the shaft 35 for adjustment longitudinally of the shaft. Radial arms 54 are provided, and are equipped at their inner ends with angular fingers 55, the fingers being mounted in the support 51 movably, so that the arms 54 can be swung radially, to accommodate articles of different sorts. Above the support 51, a collar 56 is held on the shaft 35 by a set screw 57. The collar 56 supports a shelf 58. Above the shelf 58, a spacer 59 is mounted on the shaft 35. On the spacer 59 rests the hub 60 of a shelf 61. Above the shelf 61 is disposed a spacer 62, mounted on the shaft 35. On the spacer 62 rests the hub 63 of a shelf 64. The shelves 58, 61 and 64 are of progressively decreasing diameters, the uppermost shelf (Figure 2) being of least diameter. The shelves 64, 61 and 58 are supplied with upstanding pins 65 whereon spools of thread and the like may be mounted. The collar 56 may be adjusted vertically on the shaft 35, and any desired number of the spacers 59 and 62 may be used, thereby to vary the distance, measured vertically, between the shelves 64—61 and 61—58.

In practical operation, when rotation is imparted to the shaft 8 by means of the crank 9 or its equivalent, the pinion 10 of the shaft, cooperating with the circular rack 44 of the rotatable member 34, will cause the

member 34 to turn, either for the purpose of displaying any of the articles and attracting attention to them, or for the purpose of bringing any selected article on the rotatable member 34 to the doorway, when the door 25 is opened. Since the side plates 24 of the case are of glass, the objects within the case may be displayed attractively.

It will be observed that the rotatable member 34 is carried anti-frictionally on the ball 43 and on the wheels 18. When the cover plate 38 is swung to one side, and when the various set screws, of which the set screw 50 may be taken as typical, are loosened, the shaft 35 may be removed through the top of the case. The construction is such that the assembling and taking down of the device is facilitated greatly.

Having thus described the invention, what is claimed is:—

In a device of the class described, a base, a case comprising a bottom, a top, and a body extended between the bottom and the top, the bottom resting on the base, a first shaft extended through the bottom of the case and journaled in the top of the case, display means on the first shaft, a platform secured to the first shaft and located above the bottom, a rack on the platform, a pinion meshing with the rack, a second shaft on which the pinion is mounted, and anti-friction bearings engaging the platform—the device being characterized by the provision of end-thrust means for supporting the first shaft detachably on the base, means for supporting the anti-friction bearings on the base, the bottom having openings for the reception of the bearings and the pinion, means for supporting the second shaft for rotation on the base, and securing elements forming a detachable connection between the bottom and the base: whereby the case and the first shaft may be removed, leaving the anti-friction devices, the second shaft, and the pinion, on the base.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

REUBEN SIDEMAN.