

April 26, 1932.

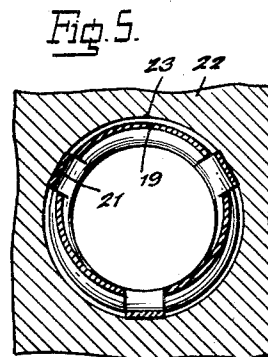
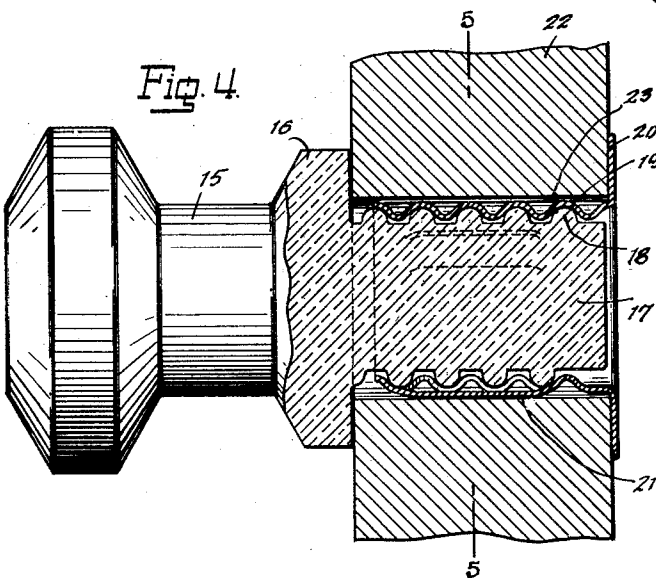
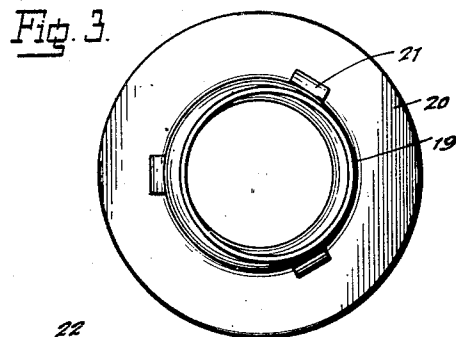
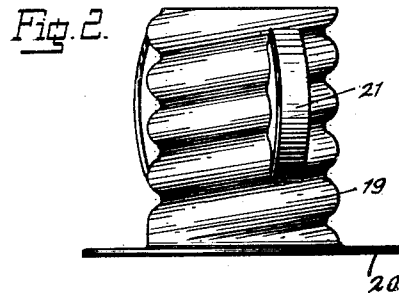
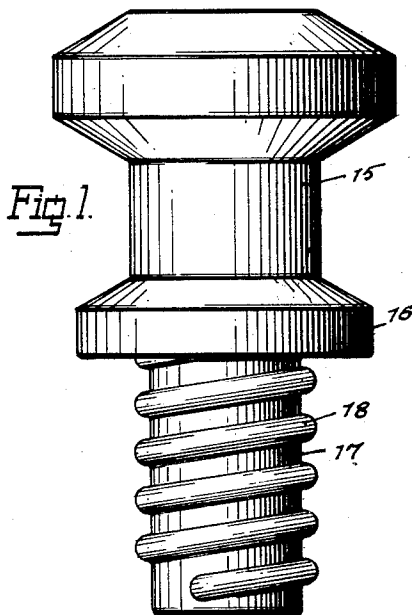
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1,855,482

KNOB FOR DRAWERS OR THE LIKE

Filed Nov. 13, 1928

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 6.

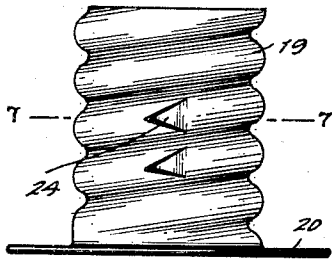


Fig. 8.

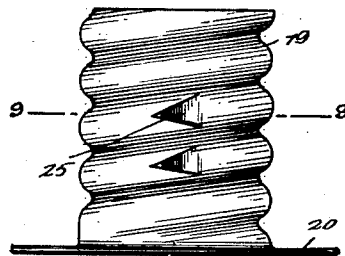


Fig. 7.

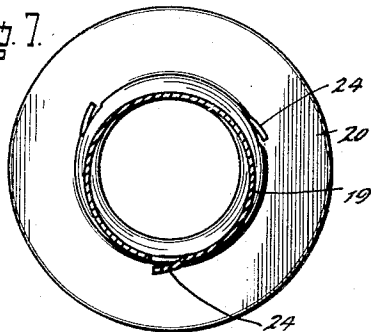


Fig. 9.

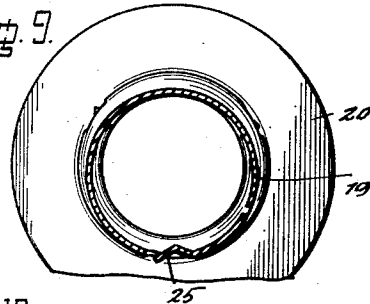


Fig. 11.

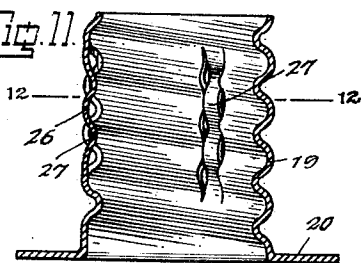


Fig. 10.

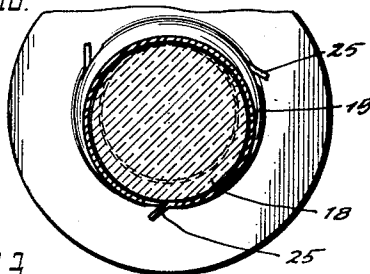


Fig. 12.

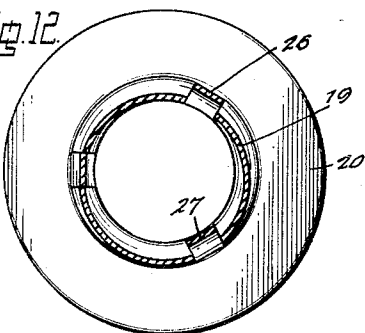
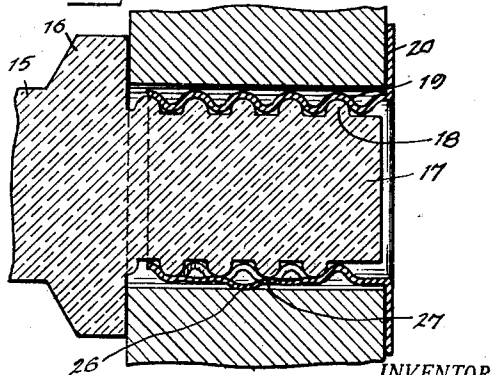


Fig. 13.



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UNITED STATES PATENT OFFICE

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KNOB FOR DRAWERS OR THE LIKE

Application filed November 13, 1928. Serial No. 319,157.

The present invention relates to an improved knob for drawers or the like, particularly of the type adapted for ready attachment to a drawer having a drilled hole there-
5 through. It is especially proposed to provide a device of this character including a knob having a threaded shank and a nut or thimble for securing it in the hole of the drawer, and means for restraining the thimble
10 against turning movement with respect to the drawer, such means being so arranged that it will be effective without putting strain upon the knob longitudinally, and without disfiguring the surface of the drawer. In this
15 connection the device is especially adapted for use with knobs formed of glass or other fragile material. Another object is to provide such a device which will be self-centering within the hole.

20 A further object is to provide a device of this character having means for restraining the nut or thimble against turning through engagement with the interior surface of the hole, and further which is automatically
25 brought into restraining relation through cooperative engagement of the knob.

With the above and other objects in view, embodiments of the invention are shown in the accompanying drawings and these em-
30 bodiments will be hereinafter more fully described with reference thereto, and the invention will be finally pointed out in the claims.

In the drawings:

35 Fig. 1 is a side elevation of a knob, according to the present embodiment of the invention;

40 Fig. 2 is a side elevation of the nut or thimble, according to one embodiment of the invention;

Fig. 3 is a top plan view thereof;

45 Fig. 4 is a longitudinal sectional view showing the device secured in the drilled hole of the drawer;

Fig. 5 is a cross sectional view, taken along the line 5—5 of Fig. 4;

50 Fig. 6 is a side elevation of a nut or thimble, according to a modified embodiment of the invention;

Fig. 7 is a sectional view thereof, taken along the line 7—7 of Fig. 6;

Fig. 8 is a side elevation of another modified nut or thimble, according to the inven-
55 tion;

Fig. 9 is a sectional view taken along the line 9—9 of Fig. 8;

Fig. 10 is a sectional view showing the same with the shank of the knob in cooperative
60 relation therewith;

Fig. 11 is a vertical sectional view of a further modified nut or thimble, according to the invention;

Fig. 12 is a cross sectional view, taken along the line 12—12 of Fig. 11;

Fig. 13 is a longitudinal sectional view showing the device, according to the embodi-
65 ment of Fig. 12, secured in the hole of a drawer.

Similar reference characters indicate cor-
70 responding parts throughout the several figures of the drawings.

Referring to the drawings, the knob, preferably formed of glass, bakelite or other suitable material, consists of a handle portion 15
75 having a flange 16 for abutment with the front wall of the drawer, and a shank 17 having a spiral thread 18 formed thereon.

The nut or thimble consists of a tubular portion 19 having a screw thread pressed
80 therein for engagement by the threaded shank of the knob, and a flange 20 adapted to engage the inner surface of the drawer in op-
posed relation to the flange 16 of the knob. A series of spaced longitudinally extending
85 spring gripping portions 21 are struck out from the tubular portion 19, their edges being projected with respect to the outer thread-
ed surface of the nut. The drawer front 22
90 has a drilled hole 23 therein, in which the knob is secured, the nut or thimble being inserted therein from the inner end and the shank of the knob being then screwed from
the front to a point where the flanges 16 and
95 20 are drawn snugly against the inner and outer surfaces of the drawer.

In inserting the nut or thimble in the hole the gripping portions 21 are compressed so
100 that their edges bite into the surface of the hole, thereby centering the device and re-

straining the nut against relative turning movement during the screwing in of the knob. It is therefore unnecessary to hold the nut while attaching the device. The

5 gripping portions are effective without the necessity for exerting longitudinal strain upon the knob, so that there is no danger of cracking or chipping the same. The device also permits of removal of the knob without
10 holding the nut at the inner end.

In Figs. 6 and 7, I have shown a modified form of nut or thimble in which a series of spaced prongs 24 are struck from the outer convex surface of the thread, these prongs
15 being directed so that the operation of screwing the knob into place will press them into the surface of the hole through the tendency of the nut to turn in the direction in which the prongs are pointed.

20 In Figs. 8 to 10 I have shown another modification in which a series of spaced prongs 25, each having an inwardly bent angular formation, are struck from the outer convex surface of the thread. The prongs in
25 the unattached relation of the nut, have their points substantially flush with the surface of the thread and their inwardly bent angular portions projected inwardly with respect to the inner concave thread surface. Upon en-
30 gagement of the threaded shank of the knob, as shown in Fig. 10, the thread 18 of the shank engages and projects the prongs outwardly, causing them to bite into the surface of the hole, their points being directed in the
35 same direction as the points 24 of the embodiment shown in Figs. 6 and 7, so that any tendency of the nut to turn is restrained.

In Figs. 11 to 13 I have shown a further modification in which spaced longitudinally
40 extending gripping portions 26 are struck from the threaded portion of the nut and are bent inwardly with respect to the inner concave surface of the thread, as at 27. Upon engagement of the threaded shank of the
45 knob, the thread 18 engages and projects the gripping portions 26, as shown in Fig. 13, causing them to bite into the surface of the hole, so that any tendency of the nut to turn is restrained.

50 I have illustrated and described preferred and satisfactory embodiments of the invention, but it will be obvious that changes may be made therein within the spirit and scope thereof, as defined in the appended claims.

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

1. In a knob device for attachment in a
60 hole in a drawer front, or the like, a knob element circumferentially closed at its ends having a threaded shank, a sheet metal thimble element having screw threads pressed therein, said thimble element adapted to be engaged in said hole and to have said shank
65 screwed therein, and projecting means cut

from the threads of said thimble adapted to present a cut edge to the surface of said hole to resist turning movement of said thimble therein.

2. In a knob device for attachment in a
70 hole in a drawer front, or the like, a knob element having a threaded shank having a thread of uniform diameter from end to end, a threaded thimble element adapted to be engaged in said hole and having a thread of
75 uniform diameter from end to end, and into which said shank is screwed, and means on said thimble element adapted to be projected outwardly to engage the surface of said hole to resist turning movement of said thimble therein, said means being normally dis-
80 posed in inwardly projecting relation to the inner threaded surface of the thimble and being projected outwardly through engagement of the threaded shank therein.

3. In a knob device for attachment in a
85 hole in a drawer front, or the like, a knob element having a threaded shank, a sheet metal thimble element having screw threads pressed therein, said thimble element adapted
90 to be engaged in said hole and to have said shank screwed therein, and means struck from the threads of said thimble element adapted to be projected outwardly to engage the surface of said hole to resist turning move-
95 ment of said thimble therein, said means being normally disposed in inwardly projecting relation to the inner threaded surface of the thimble and being projected outwardly through engagement of the threaded shank
100 therein.

4. In a knob for attachment in a hole in a drawer front, or the like, a knob element having a threaded shank, a threaded thimble element adapted to be engaged in said hole,
105 and into which said shank is screwed, and prong means cut from the threads of said thimble element adapted to engage the surface of said hole to resist turning movement of said thimble therein.

Signed at Bridgeport, county of Fairfield, and State of Connecticut, this 9th day of November, 1928.

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