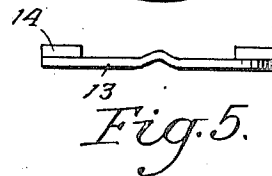
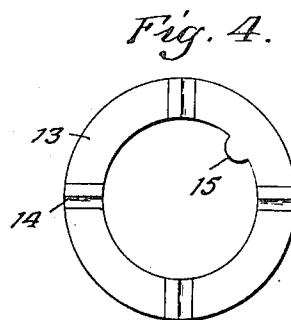
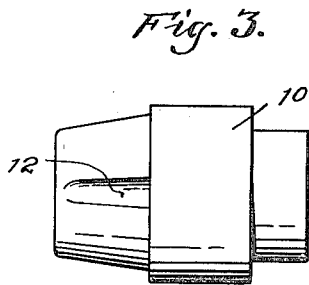
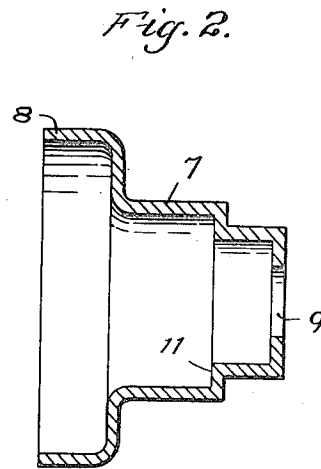
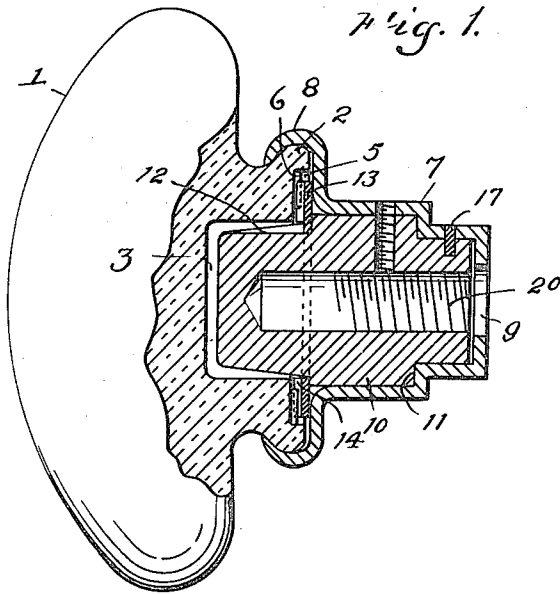


W. H. DE WOLFE.
GLASS KNOB SHANK.
APPLICATION FILED DEC. 30, 1912.

1,059,659.

Patented Apr. 22, 1913.



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GLASS-KNOB SHANK.

1,059,659.

Specification of Letters Patent.

Patented Apr. 22, 1913.

Application filed December 30, 1912. Serial No. 739,208.

To all whom it may concern:

Be it known that I, WILLIS H. DE WOLFE, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Glass-Knob Shanks, of which the following is a specification.

This invention relates to improvements in knob shanks and it is particularly intended for use in connection with glass knobs.

The object of the invention is to provide a simple and cheap shank, and one that can be easily attached to a glass knob in such manner that relative rotation of the parts is positively prevented.

The invention consists of a shell, stamped from wrought metal, the one end of which may be easily spun or turned around the rib on the inner end of the knob, and means, including a plug and an annular disk, for preventing rotation by the knob independently of the shank.

The invention is more fully set forth in the following specification and clearly illustrated in the accompanying drawing in which:—

Figure 1 is a central sectional view of my device attached to a knob. Fig. 2 is a central sectional view of the shell or cup, before being attached to the knob. Fig. 3 is a plan view of the plug, and Fig. 4 is a plan view and Fig. 5 an edge view of the disk.

The numeral 1 designates a glass knob, formed with a rib 2 at its inner end and having a hollow central space 3 to receive the end of the plug and an annular depression 5 formed with a series of lugs 6.

The numeral 7 designates the shank. This is in the form of a shell or cup, and is stamped from wrought sheet metal, in the form shown in Fig. 2. This shell is formed with an open end, and the wall 8 of this open end is adapted to be turned over the rib on the knob. The opposite end of the shell is formed with a central opening to admit the knob spindle, as indicated at 9.

The numeral 10 designates a solid plug which fits in the shell and seats against an annular ledge 11 therein, its forward end being slightly tapered and adapted to enter the hollow space 3 in the knob. This tapered end is formed with a longitudinal depression 12 in its surface.

The numeral 13 designates an annular

ring or disk, stamped from sheet metal and formed with a series of lugs 14, pressed from its body, adapted to be engaged by the lugs 6 on the inner face of the depression 5 in the knob. This disk is also formed with an inwardly projecting lug 15, intended to enter the depression 12 in the plug 10.

In assembling the parts, the plug is first placed in the shell 7 and a securing pin 17 is inserted to prevent relative rotation of the plug and shell; the spindle screw hole is then drilled through the wall of the shell and into the plug to the central opening 20, into which central opening the spindle is intended to be inserted; the disk 13 is then placed over the projecting or tapered end of the plug, with its lug 15 in the depression 12; the knob is then placed over the end of the plug and turned until the lugs 6 thereon register with the spaces between the lugs 14 on the disk, and the outer wall 8 of the shell is turned over the rib 2 of the knob, thus securely fastening the parts together.

It is evident that in this construction, I have secured a positive means of attaching the shank to a glass knob without the use of molten metal. The fact that the shell and disk can be stamped from cheap sheet metal will reduce the cost of this class of shank very materially and the device when assembled will be permanently and securely made.

It is evident that the means of preventing relative rotation between the plug and the disk may be varied without departing from the spirit of the invention, and I have shown one of the simple ways of accomplishing it.

Other details of construction may be changed also without departing from the invention.

What I claim is:—

1. The combination of a glass knob formed with a rib at its inner face, a central hollow space and an annular depression having lugs, with a shank formed of sheet metal and having an open end, the wall of which is turned around the rib of the knob, a plug located within the shell and projecting into the hollow space in the knob, said projecting end having a longitudinal depression, and an annular disk surrounding said plug, formed with a series of lugs in register with the lugs in the knob and a lug adapted to engage the plug in the longitudinal depression.

2. A knob shank formed of a hollow shell

- stamped from sheet metal, the wall of which is capable of being turned in, a plug fitting in said shell, means for securing the plug against rotation therein, an annular member fitting over said plug, said member and plug having means engaging each other to prevent independent rotation and a series of knob engaging lugs formed in said annular member.
- 10 3. The combination of a knob formed with a rib, a shank formed of sheet metal and having a flexible wall for engaging the rib, a plug fitting in the shank, means for securing the plug against independent rotation therein, and an annular member interposed .5 between the shank and the knob and surrounding the plug, said annular member having knob engaging lugs and means for engaging the plug to prevent independent rotation of the said member. 20
- In testimony whereof I affix my signature in presence of two witnesses.
- WILLIS H. DE WOLFE.
- Witnesses:
ED. A. KELLY,
CLARA E. YOUNG.