No. 784,131. PATENTED MAR. 7, 1905.

J. ASSEL.

KNOB.

APPLICATION FILED APR. 15, 1904.

Fig. 1.

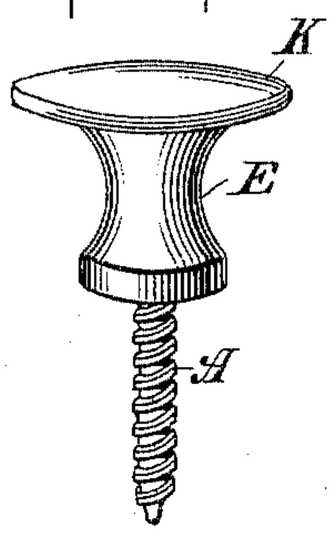


Fig. 2.

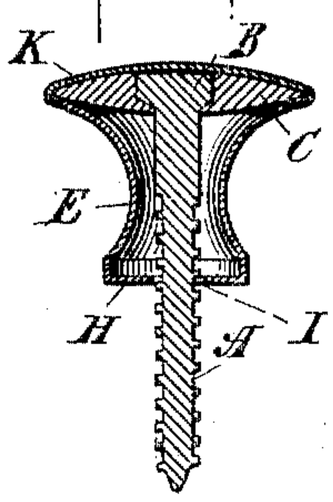


Fig. 3.

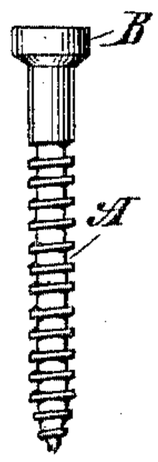


Fig. 5.

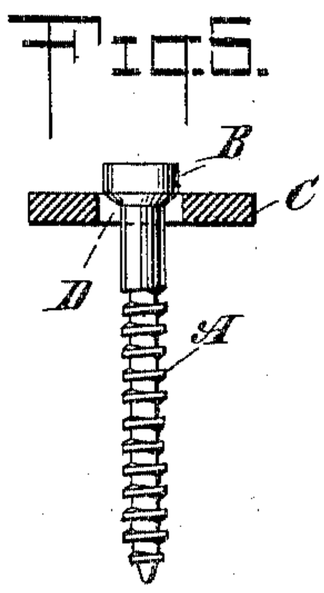


Fig. 6.

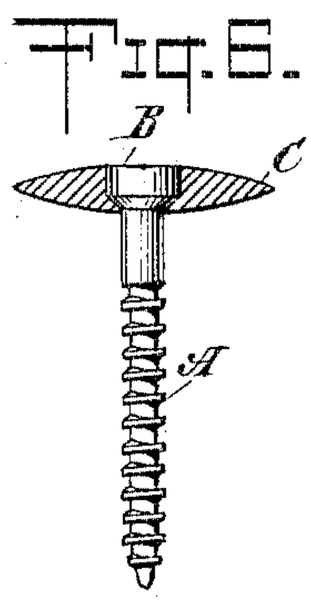


Fig. 4.

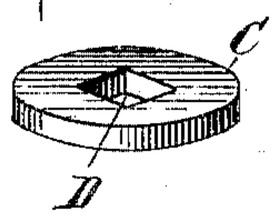


Fig. 7.

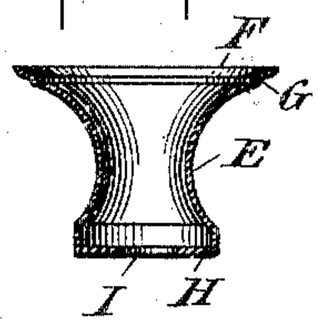
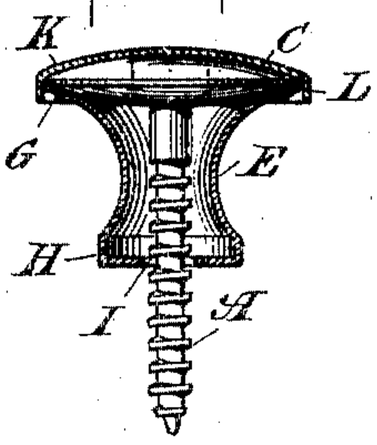


Fig. 8.



Witnesses
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By his Attorney George Cook

No. 784,131. Patented March 7, 1905.

UNITED STATES PATENT OFFICE.

JACOB ASSEL, OF WATERVILLE, CONNECTICUT, ASSIGNOR TO THE BER-BECKER & ROWLAND MANUFACTURING COMPANY, OF WATERVILLE, CONNECTICUT, A CORPORATION OF CONNECTICUT.

KNOB.

SPECIFICATION forming part of Letters Patent No. 784,131, dated March 7, 1905.

Application filed April 15, 1904. Serial No. 203,265.

To all whom it may concern:

Be it known that I, JACOB ASSEL, a citizen of the United States, and a resident of Waterville, in the county of New Haven and State of Connecticut, have made and invented certain new and useful Improvements in Knobs, of which the following is a specification.

My invention relates to an improvement in knobs, the object of the same being to simplify the construction of the same, the finished knob presenting a neat appearance and similar in all material respects to the more expensive kinds or styles.

With these and other ends in view the invention consists in certain novel features and method of construction hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in elevation of my improved knob. Fig. 2 is a vertical sectional view thereof. Figs. 3 and 4 are detached views, respectively, of the screw and disk. Figs. 5 and 6 are views illustrating the manner of assembling the screw and disk. Fig. 7 is a sectional view of the shell forming the neck or hub of the knob. Fig. 8 is a view, partly in section and partly in elevation, of the knob prior to locking the edge of the cap-plate to the hub or neck.

Referring to the drawings, A represents an ordinary metal screw provided with a head B, and C the round flat metal disk formed with a central opening D, through which said screw is passed, the head of said screw being slightly larger in diameter than the opening D, as illustrated in Fig. 5, said opening being preferably square in shape, the screw-head B being round. By means of proper tools the head of the screw is forced down into the square hole D, the metal of the disk at the same time being forced or swaged up against the screw, as illustrated in Fig. 6, thus insuring a secure fastening of the two parts, said disk at the same time being changed in shape from flat to oval shape in cross-section.

Around the screw is fitted the shell E, formed of sheet metal, preferably brass, and of the shape shown—that is, with an open upper end F, provided with the shoulder G, and with a turned-in base H, provided with a central opening I, the latter being of a proper size or diameter to allow of the passage of the screw through it, the outer edge of the metal disk C resting upon the upper edge of said hub or neck. Over the disk C is then placed a cap K, preferably formed of the same metal as the hub E and domed or shaped to fit over and upon the upper side or surface of said disk, said cap being provided with a vertical rim or flange L, as illustrated in Fig. 8. After the parts have thus been assembled the flange L is bent inwardly, as illustrated in Fig. 2, the extreme edge of said flange fitting against the shoulder G of the neck or hub to impart to the finished knob a neat appearance and conceal as far as possible the raw edge of the flange. The several parts are thereby securely locked together and in such way that there is little or no liability of their becoming disengaged.

The knob thus constructed has all appearances of being made of solid metal, the disk C, securely locked as it is to the screw, imparting sufficient strength to the article to permit of its use for any and all purposes for which the solid and more expensive knobs are now employed. As the several steps in its manufacture are accomplished or effected by means of presses it can be produced at a comparatively small cost.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A knob consisting of a screw, a disk having an opening therein in which is tightly fitted the screw-head, a shell surrounding the upper portion of said screw, the opposite or pointed end of said screw projecting through and beyond said shell, and a cap fitted on and concealing said disk, substantially as described.

2. A knob consisting of a screw, a disk having an opening therein in which is tightly fitted the screw-head, a shell forming a neck or hub on the upper edge of which rests said disk, and with a central opening in the base,

through and beyond which projects the opposite or pointed end of said screw, and a cap fitted on said disk and having its edge turned or bent over and upon the upper edge of said shell, substantially as described.

3. A knob consisting of an ordinary screw having a round head, a disk provided with a square opening into which the screw-head is swaged, a shell surrounding the upper portion of the screw, and a cap fitting over said disk and secured to said shell, substantially as described.

Signed at Waterville, in the county of New Haven and State of Connecticut, this 5th day of April, A. D. 1904.

JACOB ASSEL.

Witnesses:
ORLIN H. GAGE,
JAS. E. CAVANAGH.