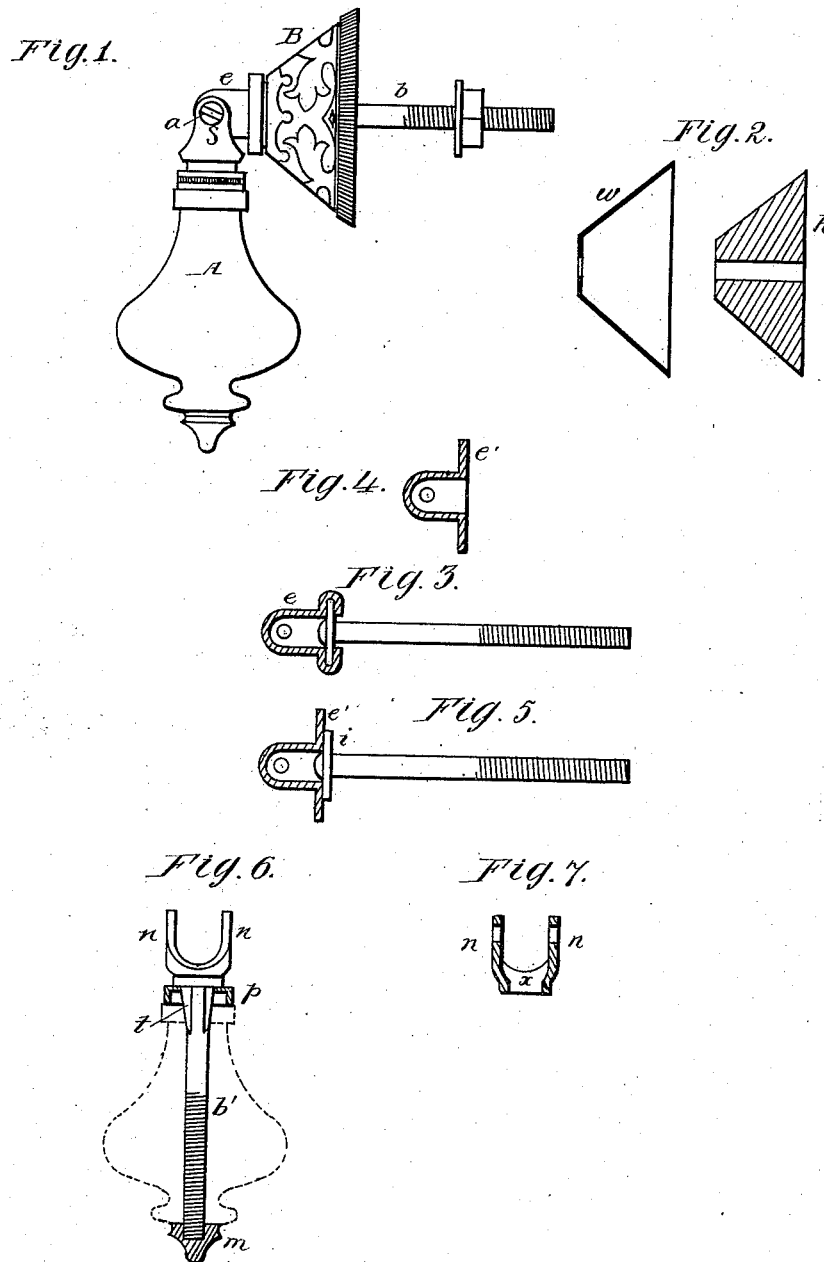


G. W. TUCKER.
Pull for Drawers.

No. 214,473.

Patented April 15, 1879.



attest:
Courtney A. Cooper
William Paxton

Inventor:
George W. Tucker
By his attorney
Charles E. Foster

UNITED STATES PATENT OFFICE.

GEORGE W. TUCKER, OF WATERBURY, CONNECTICUT.

IMPROVEMENT IN PULLS FOR DRAWERS.

Specification forming part of Letters Patent No. **214,473**, dated April 15, 1879; application filed February 6, 1879.

To all whom it may concern:

Be it known that I, GEORGE W. TUCKER, of Waterbury, Connecticut, have invented certain Improvements in Pulls for Drawers, &c., of which the following is a specification.

The object of my invention is to facilitate and cheapen the construction of pulls for drawers, &c., and to produce a durable, strong, and finished article of manufacture.

In the drawings forming part of this specification, Figure 1 is an external view of one of my improved pulls; Fig. 2, a section, showing the metal boss and filling-block detached; Fig. 3, a section of the boss-bolt and stud; Figs. 4 and 5, sections illustrating the manufacture of the boss-bolt and connections; Fig. 6, a view showing the pull-bolt and yoke, and Fig. 7 a detached section.

A is the pull, and B the boss, the latter being of stamped metal, to which is fitted an inner conical wooden filling-block, *h*, which strengthens the shell *w*, permitting thinner metal to be used in its manufacture.

The boss is connected to the drawer by a bolt, *b*, passing through both, and having at the outer end a stud, *e*. The boss-rod *b* and rod *b'*, passing through the pull A, are jointed by a pin, *a*, extending through the stud *e*, and through a yoke, *s*, on the end of the rod *b'*.

Heretofore it has been common to make the attachments—that is, the stud and yoke—of cast metal, which is expensive, requiring to be nicely finished to make fine work, and which has a threaded socket to receive the threaded end of the rod, so that the two readily become disconnected in use.

Another difficulty arising from the ordinary mode of construction is the splitting of the pull at the end by the insertion of the rod *b'*, which has fins *t*, to prevent it from turning in the pull.

I purpose to substitute malleable for cast metal, rivet the stud to the rod, and to clamp to the end of the pull a thimble, which will prevent splitting. Thus, the stud *e* at the end of the rod *b* is made by spinning or drawing up a disk of malleable metal, to form a cap, with a rim, *e'*, Fig. 4, and the stud is connected to the rod *b* by turning down the rim *e'* over

a disk, *i*, riveted to the rod, as shown in Figs. 3 and 5. Thus secured, the stud cannot be detached by any ordinary use.

The yoke *s* is likewise made by drawing up a sheet-metal blank to form a socket, *x*, Fig. 7, and ears *n n*, which, as well as the stud *e*, are perforated to receive the pin *a*. Over the end of the pull A is fitted a perforated sheet-metal cap, *p*, through which the rod *b'* is passed, and through the pull, the usual nut *m* being applied to the lower end.

As the rod is drawn inward, by turning the nut *m* the upper end, which terminates in a head fitting the socket *x*, is drawn into the said socket, and the shank is drawn into the end of the pull. As the end of the pull is enlarged by the entrance of the enlarged shank it is expanded in the cap *p*, which is thus secured, and which overcomes any tendency of the material to split or fly or chip off.

It will be apparent that the pulls or bosses, as well as the attachments, may be of various shapes while embodying my invention, and that the articles thus made are strong and durable, have a neat finish, and can be made at a less cost than where cast metallic attachments require to be finished by filing and chipping.

I claim—

1. In a drawer-pull, the combination, with the flanged sheet-metal stud *e*, of the disk *i*, to which the stud is connected by turning down its flange, as shown, and the rod *b*, riveted to the disk, as specified.

2. The combination, with the rod *b'*, of a malleable-metal yoke, *s*, having a socket, *x*, and ears *n n*, substantially as set forth.

3. The combination, with the knob or pull A, of the rod *b'*, yoke *s*, and cap *p*, clamped between the yoke and the knob, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. W. TUCKER.

Witnesses:

B. L. D'AUBIGNÉ,
F. L. ADAMS.