

W. B. GOULD.
CARRIAGE-CURTAIN FASTENERS.

No. 195,499.

Patented Sept. 25, 1877.

Fig: 1

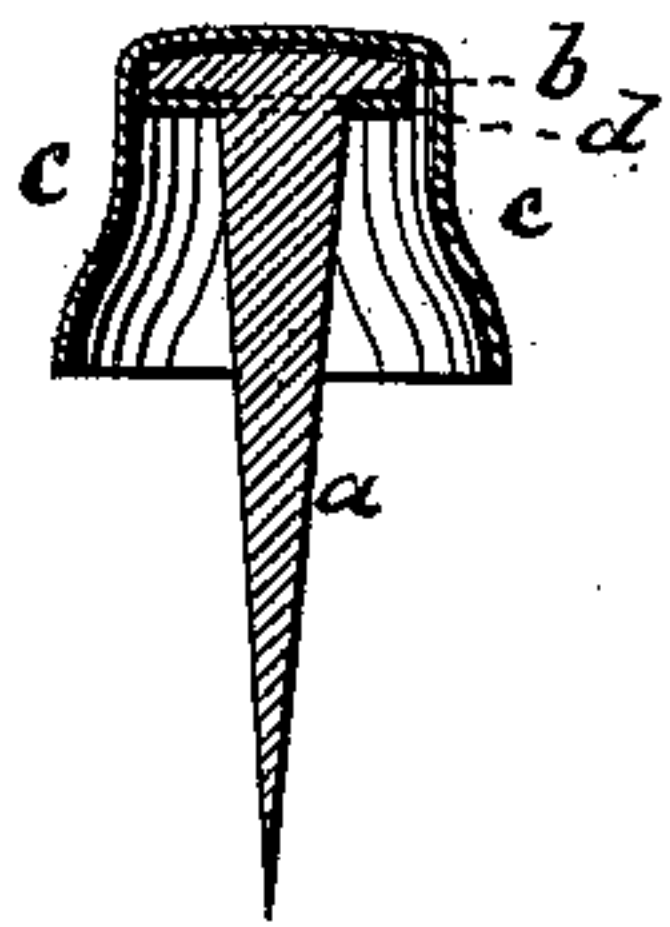


Fig: 2

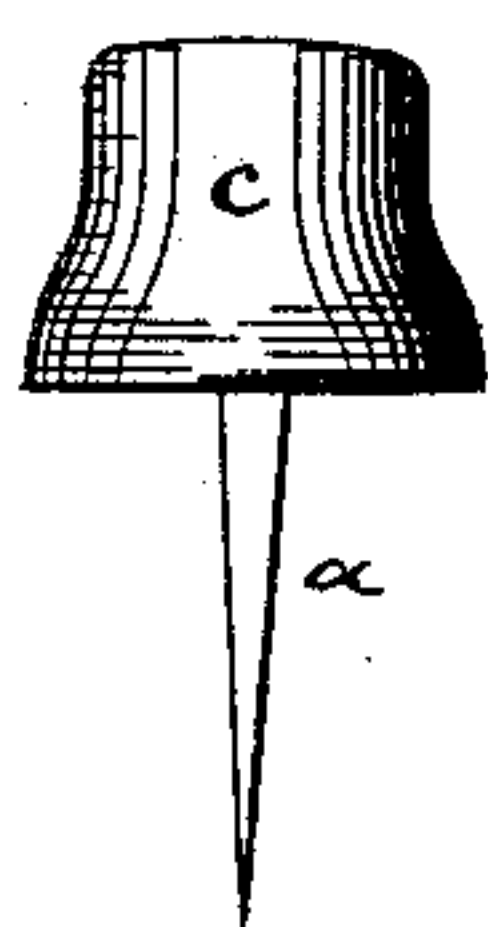


Fig: 3

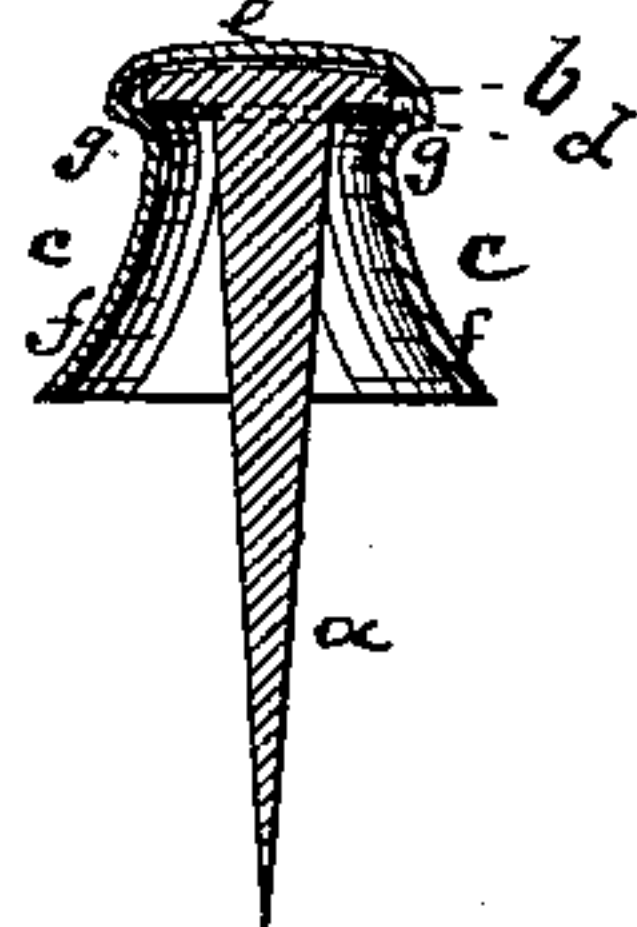
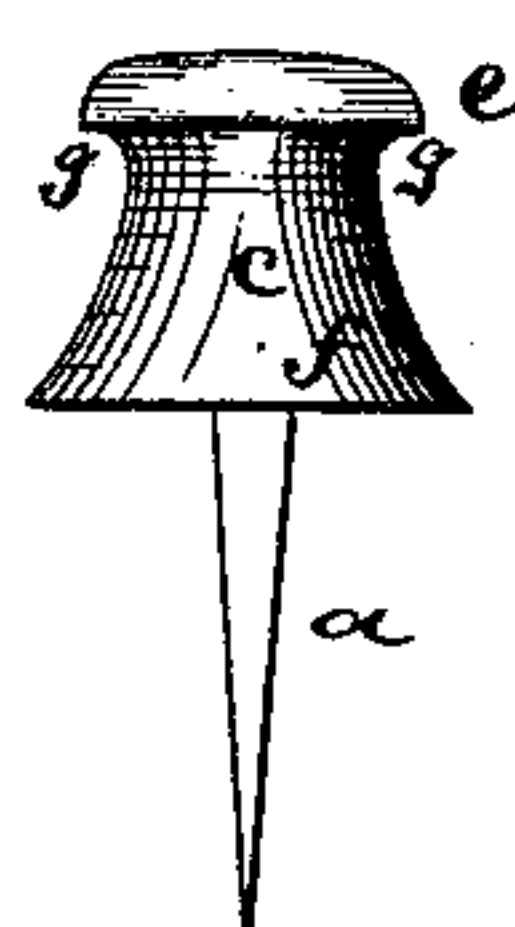


Fig: 4



Witnesses:
John E. Tunbridge
J. P. Briesen

Inventor:
William B. Gould
by his attorney
Alv. Briesen

UNITED STATES PATENT OFFICE.

WILLIAM B. GOULD, OF MONTROSE, NEW JERSEY.

IMPROVEMENT IN CARRIAGE-CURTAIN FASTENERS.

Specification forming part of Letters Patent No. 195,499, dated September 25, 1877; application filed June 5, 1877.

To all whom it may concern:

Be it known that I, WILLIAM B. GOULD, of Montrose, in the county of Essex and State of New Jersey, have invented a new and Improved Carriage-Curtain Fastener, of which the following is a specification:

This invention has for its object to simplify the manner of attaching the bell-shaped head to an ordinary nail or tack, for the purpose of producing a curtain knob or fastener, used on children's and other carriages, and also in trunks, and for other analogous purposes.

The bell-shaped heads of such knobs have heretofore been made either cast or molded from solid metal, which renders them heavy and expensive, or, when made of sheet metal, they were made in two pieces, the lower flaring piece and the upper convex piece, to which the nail-head was secured. In an article of such inferior size as these knobs necessarily are, and one which must be economically produced, the frequent handling required in connecting the two parts of the head is an important item, and one which adds considerably to the cost of its production.

My invention consists in making the head of the knob entirely in one piece, and in so spinning it after the nail-head has been introduced that it will clasp the nail-head, and thereby become intimately connected with the same.

In the accompanying drawing, Figure 1 represents a central section of the knob and nail before the former has been spun. Fig. 2 is a side view thereof. Fig. 3 is a central section of the completed knob and nail; Fig. 4, a side view thereof.

Similar letters of reference indicate corresponding parts in all the figures.

The letter *a* represents an ordinary nail or tack, and *b* its head. *c* is the knob portion, which is first struck up from a piece of flat sheet metal into the cup-shaped form shown in Figs. 1 and 2, so that it will be able to receive and embrace the nail-head, as clearly indicated in Fig. 1.

For greater regularity of connection, I may employ a washer, *d*, through which the nail-

head is fitted, as in Fig. 1, and which will, of course, be made of a certain peculiar size to fit the knob, whereas nail-heads are frequently of irregular outline, and not well adapted, without the washer, to an exact connection with the spun knob.

After the knob has been made into the shape shown in Figs. 1 and 2, and after the nail has been introduced into it in the manner stated, the entire device is secured in a lathe, and the knob spun into the shape indicated in Figs. 3 and 4, so as to form a head, *e*, at the outer end, and a bell or curtain, *f*, at the lower end. Directly below the head *e* a neck, *g*, is formed on the curtain by the spinning process, which neck forms a support for the nail-head *b* or its washer *d*, and serves thereby to securely confine the nail to the knob proper. Thus, the necessary and intimate connection of the two parts, to wit, the nail and knob, is effected by the simple spinning process, where heretofore, the knob being made of two pieces, a far larger number of manipulations were necessary.

A further advantage which this fastener has over those heretofore made is that the outline of the head *e* is perfectly smooth, and not apt to tear the carriage-curtain, where heretofore the turned-down edge of the nail-head covering was ragged, and not adapted to preserve the carriage-curtain from injury by tearing.

It will be seen that, in order to form the head *e* of a form adapting it to be buttoned to a carriage-curtain, the sheet metal must be bent to bring but a single thickness under the head *b* of the nail.

I claim as my invention—

A carriage-curtain knob composed of the nail or tack *a* and of the hollow sheet-metal cap or covering *c*, said cap or covering constituting in one piece the hollow head *e*, neck *g*, and hollow curtain *f*, the neck being of a single thickness, substantially as specified.

WM. B. GOULD.

Witnesses:

F. V. BRIESEN,
ERNEST C. WEBB.