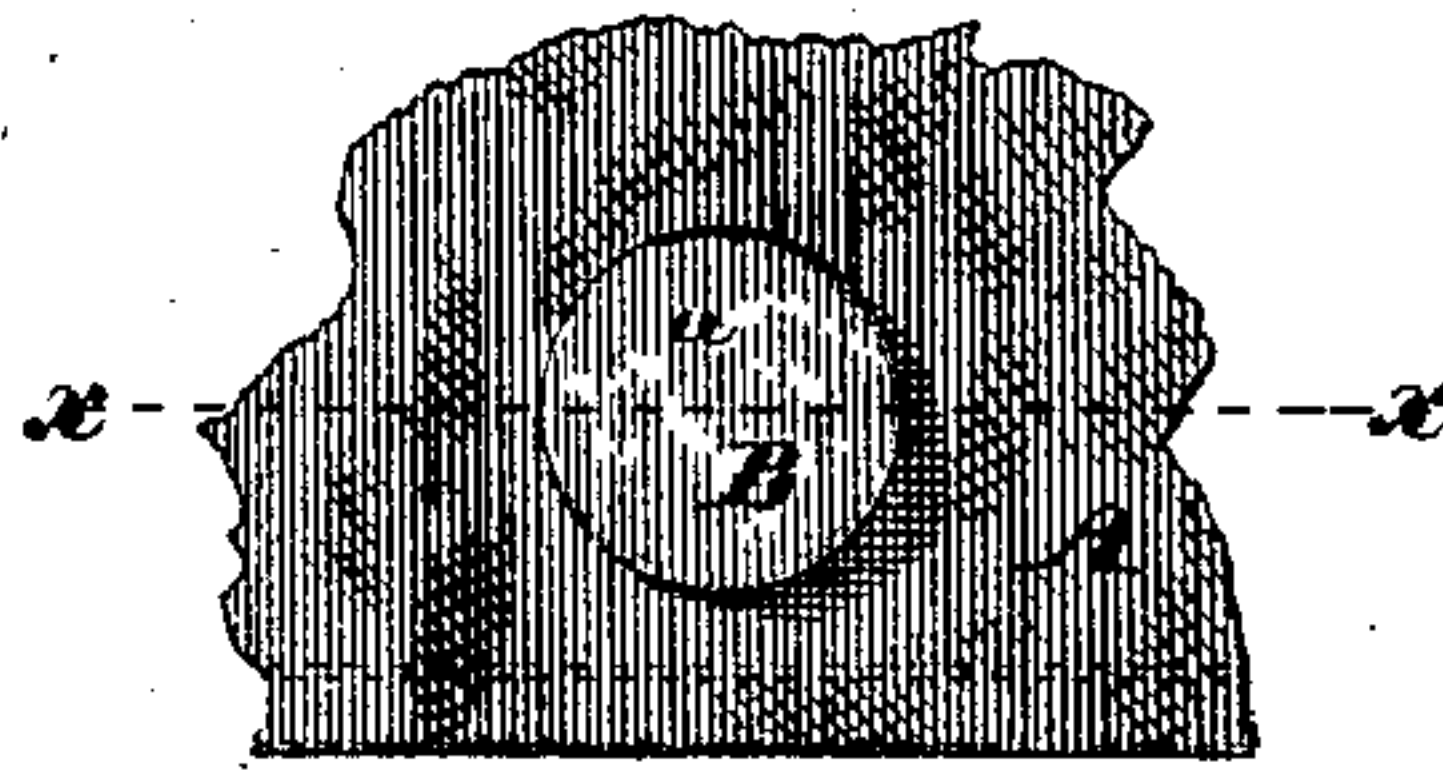


(No Model.)

M. BRAY.  
BUTTON.

No. 280,788.

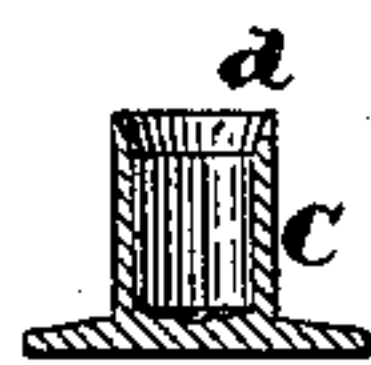
Patented July 10, 1883.



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

**Witnesses:**

Walter E. Lombard.  
E. A. Hemmenway.

**Inventor:**

Mellen Bray.

by N. C. Lombard  
Attorney.

# UNITED STATES PATENT OFFICE.

MELLEN BRAY, OF NEWTON, MASSACHUSETTS.

## BUTTON.

SPECIFICATION forming part of Letters Patent No. 280,788, dated July 10, 1883.

Application filed February 16, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, MELLEN BRAY, of Newton, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Buttons, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to an improvement in buttons; and it consists in fastening the button to garments or other articles by means of a flanged tubular cutting-rivet inserted through the cloth or other material and forced into the filling material or core of the button, so as to spread and clinch the rivet therein.

Figure 1 of the drawings is an elevation of a piece of a garment with a button secured thereon in accordance with my invention. Fig. 2 is a section on line *x x* on Fig. 1. Fig. 3 is a central longitudinal section of the tubular fastening-rivet.

A is a portion of a garment of cloth or other flexible material. B is the button, and C is the tubular rivet by which the button is secured to the material A.

The button B is made up of the shell *a*, the collet *b*, and the filling or core *c*, the shell and collet being made of metal and the core preferably of leather. The collet *b* is stamped into a concavo-convex shape, with a central conical recess upon its concave side and a correspondingly-shaped projection upon its convex side to serve as a neck for the button when secured upon the goods, the shell and collet being united at their peripheries in a well-known manner after the core *c* has been fitted to and placed in the recess of the collet and between the collet and shell, the outer face of the shell

*a* being covered with lasting or other flexible material in a well-known manner, if desired, or left uncovered, as shown in the drawings. The core or filling *c* is made preferably of leather and shaped to fit the recess in the collet, and of a suitable thickness to extend from the bottom of said recess to the inner surface of the shell *a*, as shown in Fig. 2.

The rivet C has a cutting-edge, *d*, formed at the end of its shank by beveling its inner corner, substantially as described in Letters Patent No. 180,747, granted to me August 8, 1876. The collet *b* has punched through its center, and in the center of the recess formed therein, a hole of a diameter to fit the shank of the rivet C, which is forced through the material A and said hole in the collet, and into the core of leather *c*, which is of such a hardness as to present sufficient resistance to the beveled inner surface of the tubular shank as to turn said shank outward, expanding or splitting it, and forming a curved clinch within the core or filling-piece *c*, as shown in Fig. 2.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

A button composed of the shell *a*, the recessed collet *b*, and the leather core *c*, in combination with the rivet C, having a cutting-edge, *d*, driven into and clinched within the core *c*, substantially as described.

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

MELLEN BRAY.

Witnesses:

E. A. HEMMENWAY,  
WALTER E. LOMBARD.