

(No Model.)

H. COOPER.

BUTTON.

No. 303,124.

Patented Aug. 5, 1884.

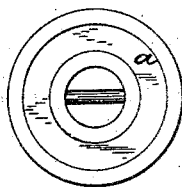


Fig. 1.

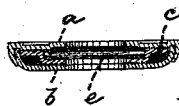


Fig. 2.

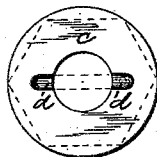


Fig. 3.



Fig. 4.



Fig. 5.



Fig. 6.

Attest:

J. F. Campbell

Eduardo S. Kempf,

Inventor:

Henry Cooper,

by Drake & Co. Attys.

UNITED STATES PATENT OFFICE.

HENRY COOPER, OF NEWARK, NEW JERSEY, ASSIGNOR OF ONE-HALF TO
GEORGE W. TOMS, OF SAME PLACE.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 303,124, dated August 5, 1884.

Application filed April 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, HENRY COOPER, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Buttons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of metallic buttons adapted especially to be used upon men's pants and in other situations where strength is required, the object being to reduce the cost of said buttons and to increase the power to resist draft thereupon.

The invention consists in the arrangements and combinations of parts, substantially as will be hereinafter set forth, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a plan of a button complete. Fig. 2 is a cross-section of the same. Figs. 3, 4, and 5 are details of interior portions thereof, the last figure being a sectional view taken through line *y*; and Fig. 6 is a sectional view showing a slight modification.

In carrying out the invention, I form upper and lower plates, *a b*, which are pressed together in the usual way, said plates being each provided with an unobstructed central perforation. Between said plates is rigidly clamped a center plate, *c*, (shown in Figs. 3 and 5,) having also an unobstructed central perforation, but provided with recesses *d* to receive the extremities of a cross-bar, *e*, and hold the latter across the said central perfora-

tion. Said cross-bar is composed of wire of adequate strength, and is cut into lengths sufficient to engage with the opposite recesses and lie therein, crossing the central opening in the several plates, and enabling the button to be sewed upon the cloth.

I do not wish to be understood as limiting myself to any form or size of the center plate, inasmuch as the same may be angular, substantially as indicated in Fig. 3, and it may either lie between the outer plates, as in Fig. 6, with its peripheral portion in engagement with the edge of the under plate, or said peripheral portion may lie inside of said edge, as in Fig. 2. The first of these two methods, however, is preferred, inasmuch as the said center plate is clamped in that position more securely or immovably.

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

1. A button composed of the inner and outer plates, a center plate having recesses *d d* formed on opposite sides of a central opening, and a cross-bar lying in said recesses, all substantially as herein set forth and shown.

2. In combination, the inner and outer plates having unobstructed central openings, the center plate having a central opening with recesses at each side thereof, said center plate being rigidly clamped between said outer plates, and a wire cross-bar crossing said openings and secured in said recesses, all substantially as herein set forth and shown.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of April, 1884.

HENRY COOPER.

Witnesses:

CHARLES H. PELL,
F. F. CAMPBELL.