No. 626,398. Patented June 6, 1899.

J. V. WASHBURNE.

BUTTON.

(Application filed Oct. 9, 1897.)

(No Model.)

Fig. 1.

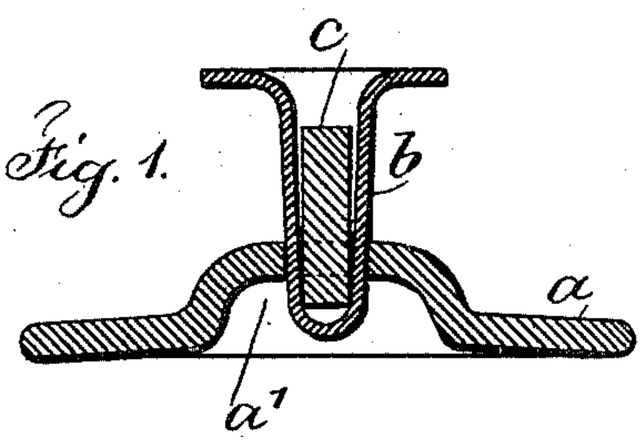


Fig. 2.

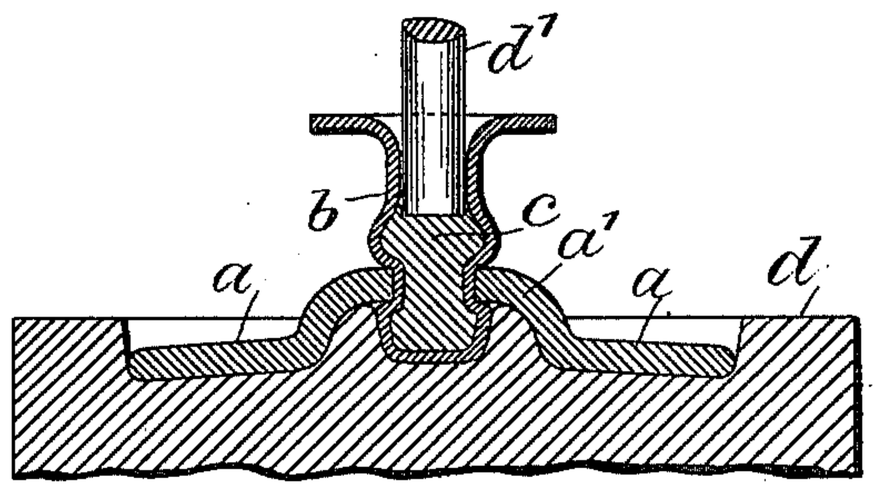
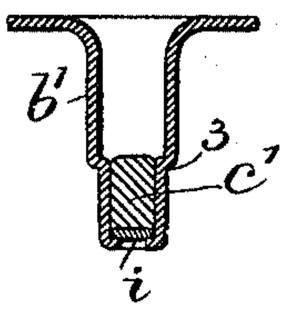


Fig. 6.



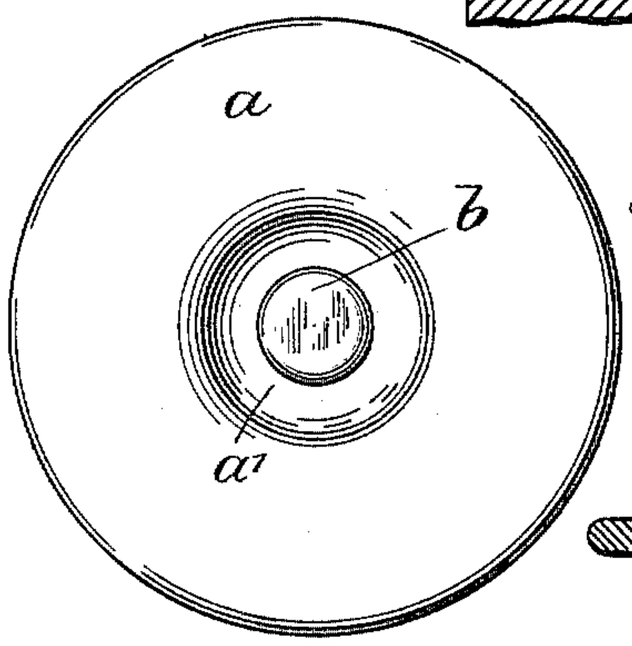


Fig. 4.

Fig. 5.

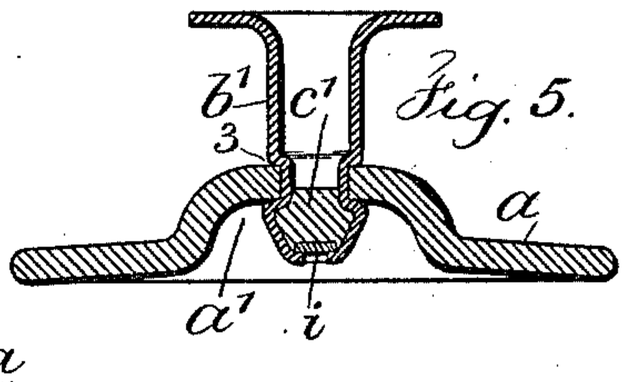
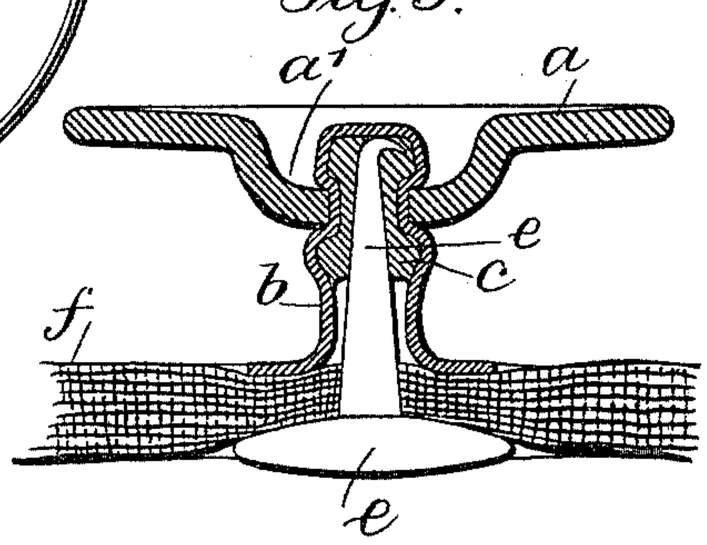


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES V. WASHBURNE, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE PATENT BUTTON COMPANY, OF SAME PLACE.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 626,398, dated June 6, 1899.

Application filed October 9, 1897. Serial No. 654,629. (No model.)

To all whom it may concern:

Be it known that I, JAMES V. WASHBURNE, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Buttons, of which the following is a specification.

My invention relates to the class of buttons employed upon men's and boys' clothing, especially pants, which buttons are secured permanently and without thread.

In carrying out my invention I make use of a centrally-perforated disk and a tubular shank passing through the perforation and preferably having a flaring or flanged end, forming the base of the button, that rests against the garment, and a plug of suitable material or soft metal, such as lead, is pressed into the end of the tubular shank and expands the same to firmly connect the two parts together.

In applying this button to the garment a tack with a broad head is passed through the fabric and the point thereof driven into the lead in such a manner as to spread or be clenched to firmly hold the two parts of the button to the fabric.

In the drawings, Figure 1 is a cross-section of the button-disk, the shank, and the filling-plug. Fig. 2 shows the same parts with the button-disk upon a die and the plunger as at the end of the operation of securing the shank to the button-disk. Fig. 3 is a cross-section of the button-disk and shank as secured by the nail to the fabric of a garment. Fig. 4 is a plan view of the button. Fig. 5 is a sectional view showing a modified form of the button illustrated in Figs. 2 and 3. Fig. 6 is a section of the shank and filling-plug before being secured to the button-disk shown in Fig. 5. These parts are all of an enlarged or magnified size.

The button-disk *a* is preferably made with a recessed and perforated center *a'*. The same may be of any desired material.

b represents a tapering shank or eyelet closed at one end and preferably flanged or flaring at the other end. This shank is received in the perforation of the button-disk, as shown in Fig. 1.

The lead filling or plug is represented at *c*. The shank *b'* instead of tapering may have approximately parallel sides and a shoulder at 3, as shown in Figs. 5 and 6, the reduced end passing into the perforated center of the disk to the shoulder 3. The plug or lead filling *c'* is placed at this reduced end. The reduced end in Fig. 5 may be perforated or imperforate. If perforated, I prefer to place therein a small disk *i*, of hard metal, against which the lead is pressed and the point of the tack turned, as hereinafter described.

In the operation of securing the shank to the button-disk I prefer to lay the button-disk upon a die *d*, the surface of which corresponds generally to the surface of the button-disk and to the rounded finished head of the shank, and the plunger *d'* approximately fits the interior of the shank, and as the plunger is forced downward the plug or lead filling *c* spreads the shank, which is of soft metal, into approximately the form shown, said shank being thereby securely fastened to the button-disk. In the tapering form the shank is enlarged back of the button-disk, as well as in front thereof, as shown in Figs. 2 and 3.

The nail *e*, provided with a suitable head, is passed through the fabric *f* of the garment to which the button is to be fastened and the end of the button-shank placed against a hard surface, and the nail is driven into the plug or soft-metal filling in the shank, and when the point of the nail comes against the inner surface of the metal the same is turned over and clenched and the fabric is securely fastened between the head of the nail and the flange of the shank, it being practically impossible in ordinary use to pull the nail out.

This button is very cheaply made, is composed of a minimum number of parts, and can be very securely fastened in place in the garment, and I prefer to employ lead as a filling or plug, because the same is both cheap and effective; but I do not limit myself in this particular.

I claim as my invention—

1. A button of the character described consisting of a button-disk having a perforated depressed center, a shank in the form of an eyelet passing through the perforation in said center and forming enlargements above and below the bottom of said center, and a soft-

metal plug contained within said eyelet at the end next to the bottom of said center, whereby the shank is secured to said depressed center, substantially as described.

2. A button of the character described, consisting of a button-disk having a perforated depressed center, a shank in the form of an eyelet passing through said center said shank forming enlargements above and below the bottom of said center, and a metal plug contained within the shank and filling said enlargements, substantially as described.

3. A button of the character described, consisting of a disk having a perforated depressed center, a shank in the form of a closed eyelet, one end of which is flared and the opposite end passing through the bottom of said depressed center said shank forming enlargements at points above and below said bottom, a filling or plug contained within said shank and completely filling said enlargements thereof, substantially as described.

Signed by me this 1st day of October, A. D. 1897.

JAMES V. WASHBURNE.

Witnesses:

GEO. T. PINCKNEY,

HAROLD SERRELL.