

(No Model.)

E. KEMPSHALL.
BUTTON.

No. 565,276.

Patented Aug. 4, 1896.

FIG. 1.

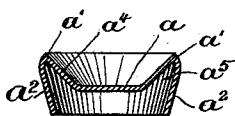


FIG. 2.

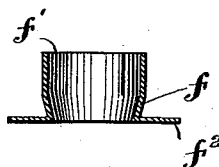


FIG. 3.

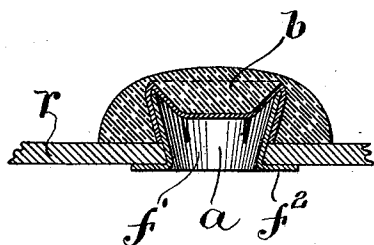
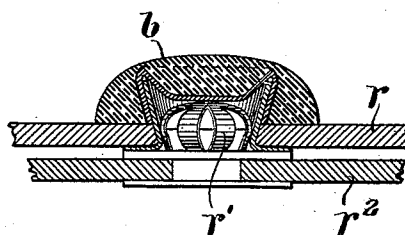


FIG. 4.



WITNESSES:

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ELEAZER KEMPSHALL, OF NEWTON, MASSACHUSETTS, ASSIGNOR TO
THEOPHILUS KING, TRUSTEE, OF BOSTON, MASSACHUSETTS.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 565,276, dated August 4, 1896.

Application filed December 12, 1895. Serial No. 571,885. (No model.)

To all whom it may concern:

Be it known that I, ELEAZER KEMPSHALL, of Newton, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Buttons, of which the following is a specification.

This invention relates to a useful improvement in buttons; and it consists in the novel features of construction and relative arrangement of parts hereinafter fully described in the specification, clearly illustrated in the drawings, and particularly pointed out in the claims.

Reference is to be had to the accompanying one sheet of drawings, forming a part of this application, in which like characters are used to indicate like parts wherever they occur.

Figure 1 represents a vertical longitudinal section of a metal core or blank of the button-head. Fig. 2 represents a like view of the eyelet portion of the button, whereby the button is secured to the fabric. Fig. 3 is a similar view of the completed button, showing the metal core, with its molded covering of plastic material, the eyelet portion thereof, and the fabric. Fig. 4 represents a view similar to Fig. 3, but showing in addition a resilient head secured to a separate piece of fabric, said head adapted to engage the interior of said eyelet and be retained thereby.

This invention has in view a button whose metal core is protected by a covering of plastic material, and while this button may be used in any desired place I have designed it particularly for use in connection with gloves.

My button proper is composed of a metal head or core covered with plastic material, combined with a tubular eyelet having spring-fingers for engaging the metal head of the button in order to secure the button to a fabric, the latter being held between the under side of the button and a flange formed on the lower end of the eyelet.

a represents a dish-shaped head, whose edge a' is bent over upon itself and then extended rearwardly and downwardly to form an annular flange a^2 , adapted to rest on the die-plate, and together with the side a^4 of the dish-shaped head to form a flaring recess a^5 ,

the side a^4 and flange a^2 lying in planes at an angle to the axis of the head. The core or metal head is placed upon some suitable anvil, the lower part of the flange a^2 resting thereon, when, by a suitable die, the covering of plastic material b is molded about this core, filling the dish-shaped head, extending about and covering the flange, and being locked thereon by reason of the flare of the flange.

f represents a tubular-shaped eyelet provided at one end with spring-fingers f' and at its opposite end with a flange f^2 , adapted to engage a fabric r . In practice the eyelet is forced through the fabric r by any suitable tool, the flange f^2 engaging the fabric, while its fingers f' enter the lower side of the button and are spread by the side a^4 of the metal core and forced into the recess a^5 , as shown in Figs. 3 and 4, thereby securely and permanently locking the eyelet to the button-head and securing the button to the fabric, the fingers being gripped between the opposing walls of the side a^4 .

r represents a resilient stud secured to a fabric r^2 and adapted to be forced into the eyelet f and be removably retained therein, as shown in Fig. 4, by the engagement of the resilient parts of the stud with the flaring sides of the eyelet f after it has been secured to the head.

The flange a^2 serves several purposes and acts as a support of the die-plate in molding the covering about the core. It prevents the interior of the core being filled with plastic material. Owing to its being arranged at an angle to the axis of the button-head it serves as an anchoring means, and in conjunction with the similarly-disposed sides of the dish, serves as a gripping member to retain the fingers of the eyelet. The sides a^4 of the dish being arranged at an angle to the axis of the button-head not only combine with the flange a^2 for the purposes stated above but also serve as an anvil to spread the fingers f' .

Having thus explained the nature of my invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which

it may be made or all of the modes of its use, what I claim, and desire to secure by Letters Patent, is—

1. A button-head comprising in its construction, a dish-shaped head, whose edge is bent over upon itself, and extended to form a flange that extends rearwardly and inwardly, the sides of said dish-shaped head and said flange being arranged in planes that are at an angle to the axis of the head, the edge of the flange extending below the bottom of the head proper, and means for securing the said head to a fabric, substantially as and for the purpose set forth.
2. A button-head comprising in its construction, a dish-shaped head, whose edge is bent over upon itself, and extended to form a flange that extends rearwardly and inwardly, the sides of said dish-shaped head and said flange being arranged in planes that are at an angle to the axis of the head, the edge of the flange extending below the bottom of the head proper, combined with an eyelet comprising a tubular body having fingers arranged in the flaring space between the side of the dish and its flange, and confined by said side and said flange to lock said head and eyelet together, substantially as and for the purpose set forth.
3. A button-head comprising in its con-

struction, a dish-shaped head, whose edge is bent over upon itself, and extended to form a flange that extends rearwardly and inwardly, the sides of said dish-shaped head and said flange being arranged in planes that are at an angle to the axis of the head, and a covering of plastic material molded about the top and sides of said head, and anchored thereto by the flange, substantially as and for the purpose set forth.

4. A button comprising in its construction, a dish-shaped head, provided with a flaring side, the edge of said side being bent over upon itself, to form a flange that extends rearwardly and inwardly in a plane at an angle to the axis of the head, combined with an eyelet comprising a tubular body, formed with spring-fingers, adapted to engage the sides of said head, and be spread thereby to occupy the space between said side and said flange, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 9th day of December, A. D. 1895.

ELEAZER KEMPSHALL.

Witnesses:

A. D. HARRISON,
A. D. ADAMS.