

(No Model.)

H. BARTLE.  
BUTTON.

No. 246,282.

Patented Aug. 30, 1881.

FIG. 1.

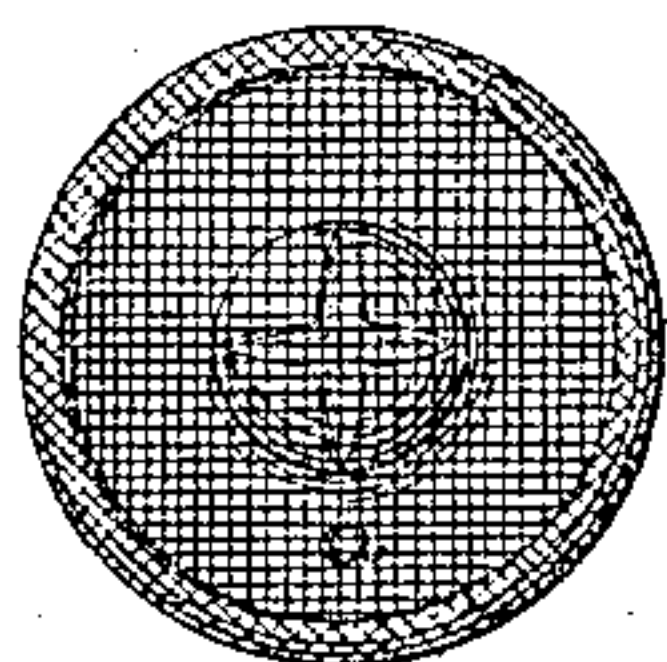


FIG. 2.

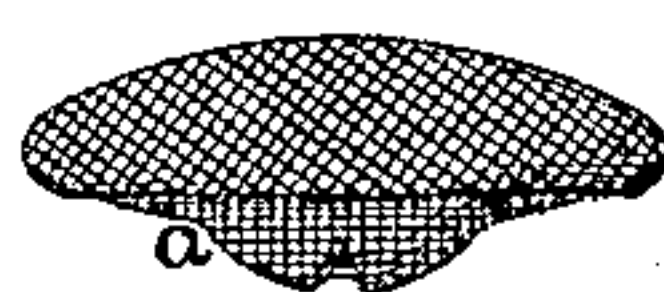


FIG. 3.

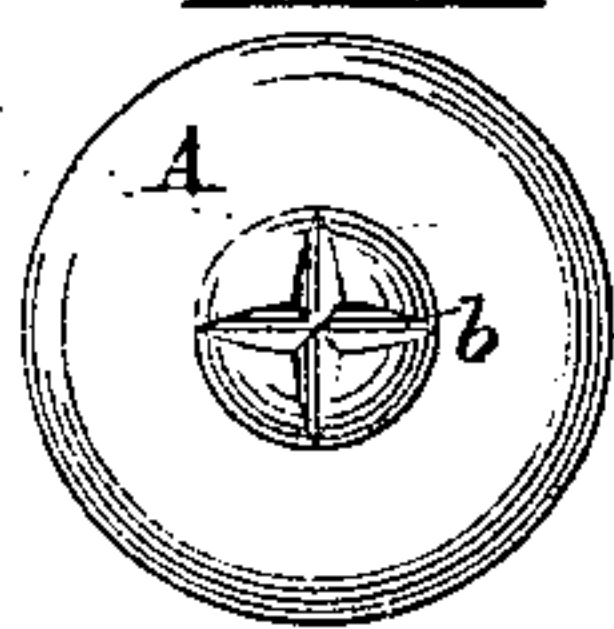


FIG. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## BUTTON.

SPECIFICATION forming part of Letters Patent No. 246,282, dated August 30, 1881.

Application filed June 14, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, HOWELL BARTLE, of the city of Washington, in the District of Columbia, have invented certain new and useful  
5 Improvements in Buttons; and I do hereby declare that the following specification, taken in connection with the drawings furnished and forming a part of the same, is a clear, true, and complete description of my invention.

10 My improvements have been devised with special reference to that class of buttons which are used on "wash-goods," mainly on under-clothing, and have cloth backs for receiving stitches, and contain rigid parts composed of  
15 non-corrosive metal.

Heretofore such buttons have generally been filled with paper or pastboard disks, and have had a true or open collet, through the eye of which water freely enters, which causes the  
20 paper to swell and the buttons to burst. Another variety, without paper fillings, contained a specially-formed collet, differing from the true collet in having its eye inwardly flanged; but this variety of buttons, being hollow, is  
25 so filled with water or suds during the washing operation that leakage therefrom subsequently occurs, which stains the garment adjacent thereto. Another and more recent button of this general class embodies an eyeless  
30 collet having a central convex projection. These buttons are practically water-tight, and therefore, if paper fillings are used therein, the buttons do not burst, and if said buttons are hollow they are not liable to be filled with  
35 water.

My said improvements are founded upon said recent button, and have for their object an accurate and uniform guidance of the needle across the convex projection of the eyeless  
40 collet, and such a housing of the underlying portion of the thread used for sewing on the button as to obviate, as far as possible, the objectionable bunching or projection of the thread and fabric at the rear of the button. I  
45 attain these ends by providing the convex projection of the eyeless collet with one or more transverse scores or grooves.

Referring to the drawings, Figures 1 and 2 are respectively enlarged rear and side views

of a button embodying my invention. Figs. 50  
3 and 4 are respectively rear and sectional views of my novel collet.

The front shell and its cloth front and cloth back *a* are all as heretofore in said prior button. The collet *A* is eyeless, and has a central  
55 convex projection, the annular edge of which serves as a general guide for the point of the needle in sewing, as in said prior button. The novel feature devised by me consists in one or more diametrical scores or grooves, *b*, in said  
60 convex projection. Two of said scores or grooves are shown, but sometimes one is sufficient. If, however, the buttons be of large size more than two grooves are sometimes desirable. These eyeless collets are composed  
65 of non-corrosive metal, as in said prior button, and for forming the grooves *b* the dies are correspondingly formed in a manner well known.

My button (notwithstanding the cloth back 70  
over the collet) discloses the presence of my grooves, and they serve as a ready transverse guide for the needle, and the interior portion of the thread used for securing the button is well housed in said grooves, resulting in a  
75 bunch or protuberance at the rear of the button of minimum proportions, whereas without said grooves the thread is piled wholly upon the crown of the convex projection. The presence of the grooves does not interfere with  
80 the function of said projection in keeping the cloth back so projected centrally as to be readily pierced laterally by a needle, and obviates the necessity for picking the said central portion outwardly with a needle, as when  
85 the ordinary open-eye collet is used, or the specially-formed eye-collet hereinbefore referred to.

The cost of applying my improvement is obviously only involved in scoring the dies al- 90  
ready in use; but these buttons are so far improved by me as to not only greatly facilitate their application, but also to contribute to their being more firmly and neatly sewed to garments, and to reduce the bulk of fabric and  
95 thread at the rear of the button.

Having thus described my invention, I claim as new—

1. The wash-button having a cloth front and back, and an eyeless collet having a convex central projection, provided with one or more diametrical scores or grooves for guiding the needle in sewing and housing the thread when secured to a garment, substantially as described.

2. A button-collet composed of metal and having a central convex projection diametrically scored, substantially as described.

HOWELL BARTLE.

Witnesses:

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