(No Model.)

F. H. GOLDTHWAIT.

BUTTON.

No. 259,303. Patented June 13, 1882.

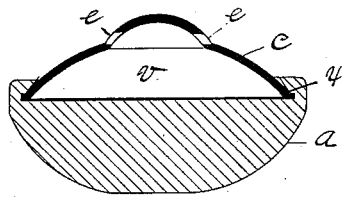

Fig I,

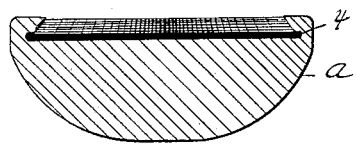

Fig II,

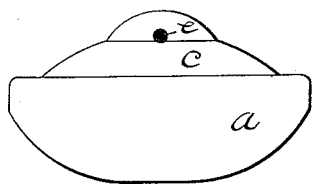

Fig III,

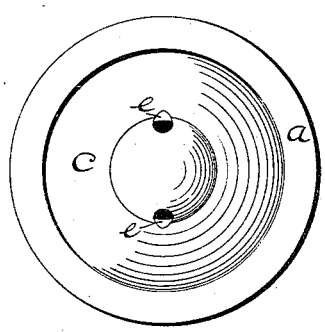

Fig IV,

Witnesses;
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C. B. Chapin

Inventor;
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by R. F. Hyde
Atty.

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

FRANK H. GOLDTHWAIT, OF SPRINGFIELD, MASSACHUSETTS.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 259,303, dated June 13, 1882.

Application filed April 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. GOLDTHWAIT, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Buttons, of which the following is a specification.

This invention relates to improvements in buttons composed mainly of vegetable ivory, the object thereof being to provide improved means for utilizing more fully vegetable-ivory nuts in the manufacture of thick buttons by supplementing the back thereof with a hollow convex shell, which also provides means for securing the button to a garment in the usual way.

In the drawings, forming part of this specification, Figure I is a transverse sectional view of a button constructed according to my invention. Fig. II is a similar view, with the hollow back of the button removed. Fig. III is a side elevation, and Fig. IV is a plan view of the rear side of the button.

In the drawings, *a* indicates the vegetable-ivory face part of the button. *c* is the hollow convex shell forming the back. *e e* are the thread-holes in the back *c*. *x* indicates an undercut edge surrounding a cavity in the back of *a*. *v* is a chamber between the ivory and the convex back *c*.

The natural form of the ivory nut is generally such as to preclude the manufacture entirely from it of as thick a button as is frequently demanded, owing to the fact that the central portion of said nut is almost uniformly cracked and imperfect to such a degree as to quite unfit it to form a part of the button, and therefore to utilize the serviceable part or parts of said ivory nuts in the manufacture of thick buttons the face part of the latter is supplemented by the addition to its rear side of a convex back, *c*, of other material, as hereinafter set forth.

The face part *a* of the button is turned and finished to the desired convexity and size, and a cavity is formed on or in its rear flat side, sufficiently within its border to leave a projecting rim thereon. Said rim is undercut from within toward the border of the button, as at *x*.

A convex back *c* is made of flexible sheet metal, struck up or otherwise made into the form shown, and is provided with a border adapted to fit into the undercut channel around on the inner side of said projecting rim on the ivory face *a*, and said back *c* is further provided with suitable thread-holes, *e e*, for securing the button to a garment in the usual way.

Said face *a* and back *c* having been made as above described, the edge of said back is sprung into the undercut channel *x*, formed on the rear side of the face, as above described, and thus become firmly united one to the other, as shown, and the button thus made constitutes a thick and comparatively large button, with but a moderate consumption of ivory stock, and furnishes a button of great strength and durability, and of but little weight compared to its size.

The double-convex form of the back *c* provides an apex thereto of smaller diameter, so as to provide better conveniences for passing thread through the holes *e e*.

What I claim as my invention is—

The within-described improved button, consisting of the vegetable-ivory face *a*, having a projecting rim on its rear side provided with an undercut channel, *x*, and of the convex metallic back *c*, having a border to fit said channel *x*, and provided with perforations or other suitable means of attachment, substantially as set forth.

FRANK H. GOLDTHWAIT.

Witnesses:
R. F. HYDE,
H. E. WILKINS.