

(No Model.)

N. C. NEWELL.

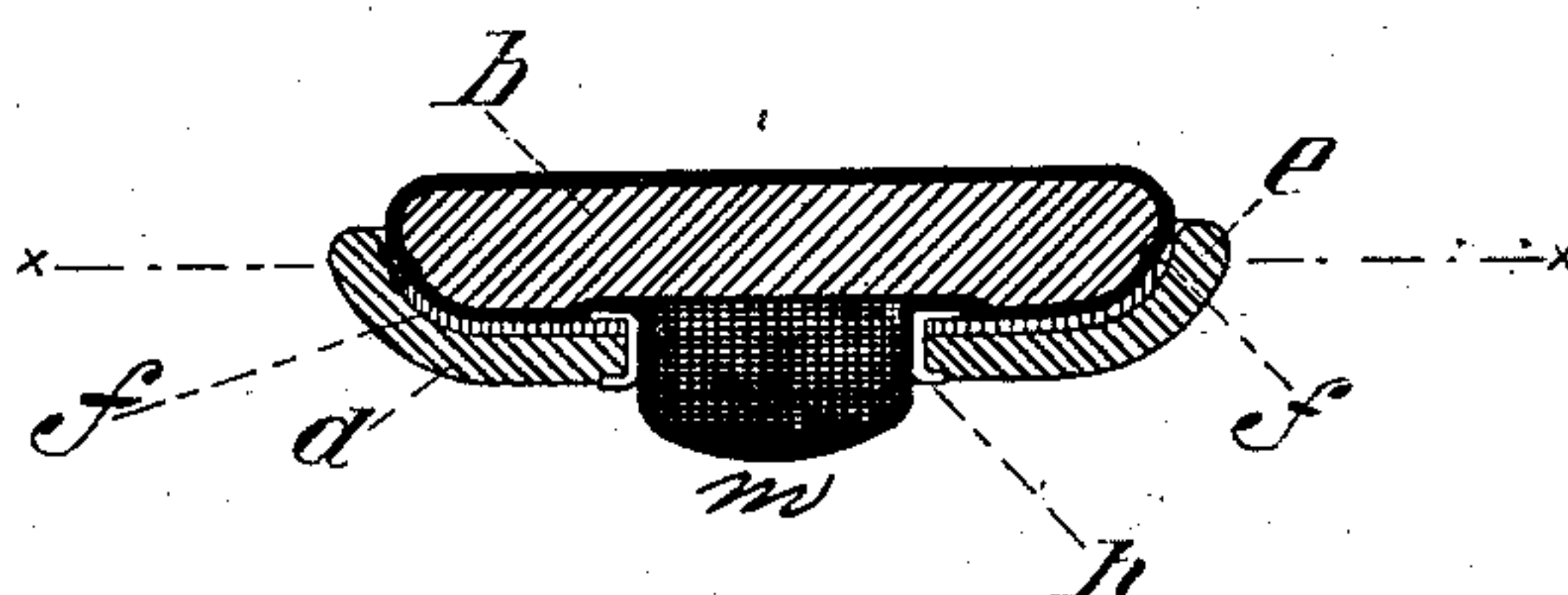
BUTTON.

No. 273,132.

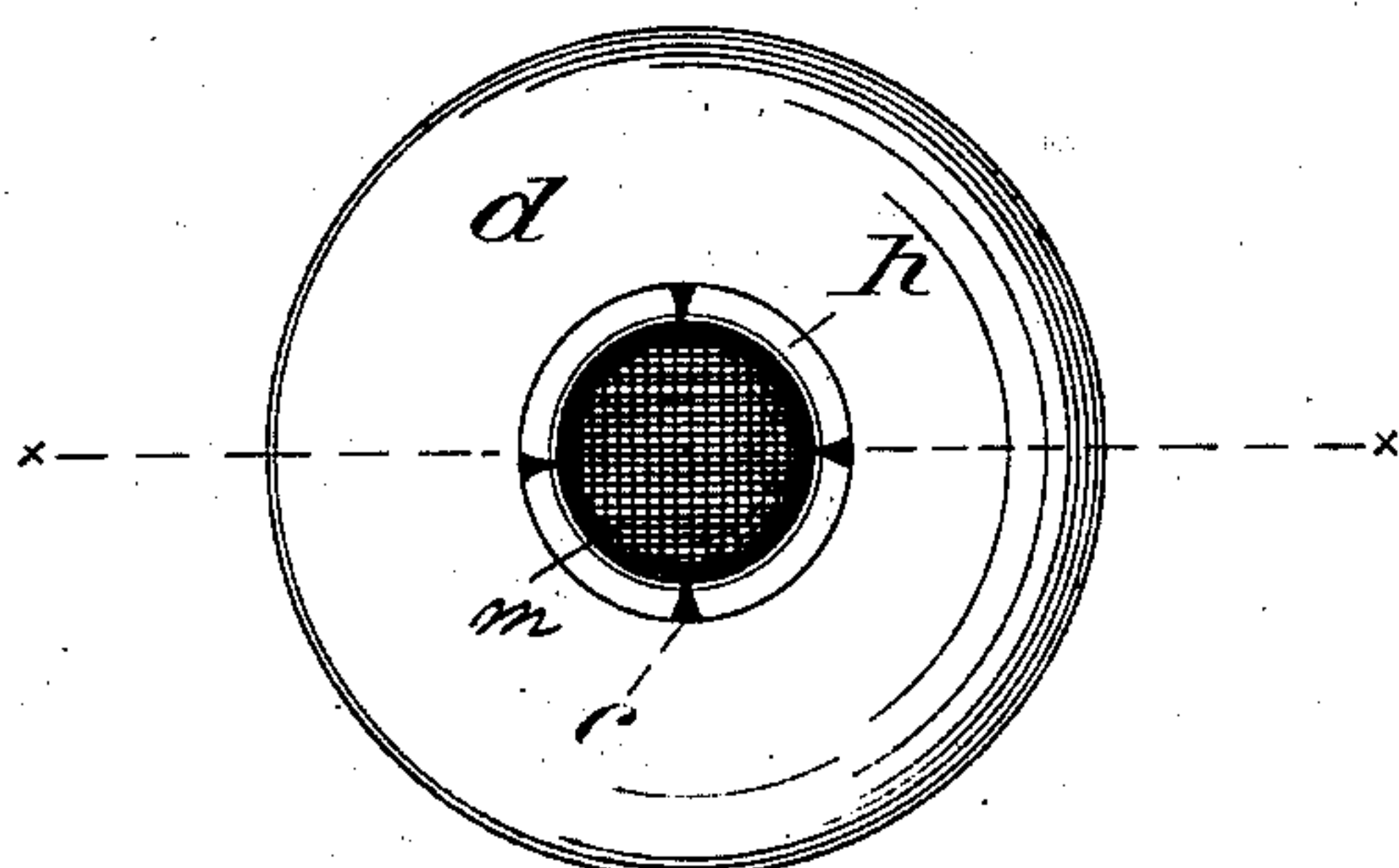
Patented Feb. 27, 1883.



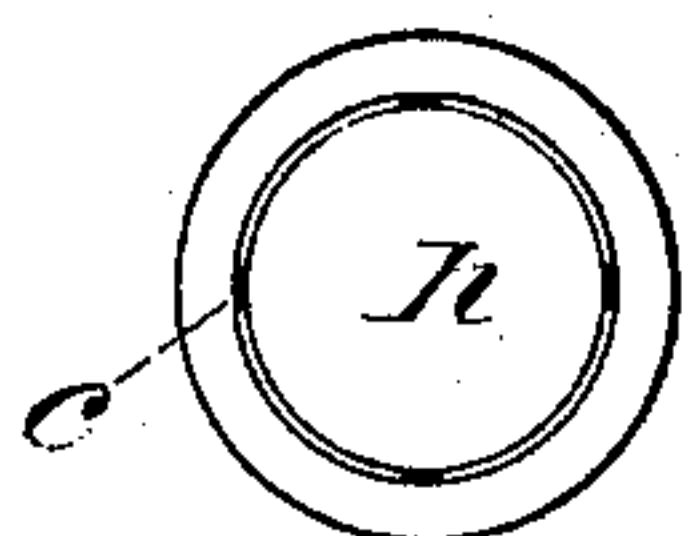
*Fig. I,*



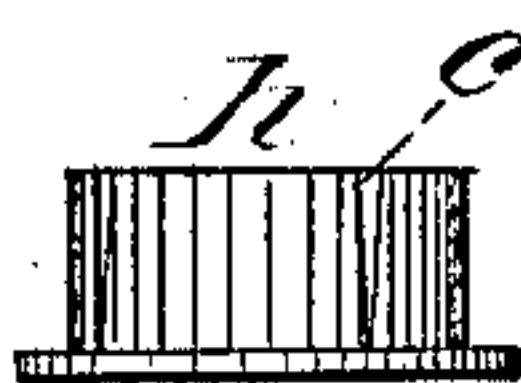
*Fig. II,*



*Fig. III,*



*Fig. IV,*



*Fig. V.*

Witnesses.  
Wm. H. Chapin  
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# UNITED STATES PATENT OFFICE.

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## BUTTON.

SPECIFICATION forming part of Letters Patent No. 273,132, dated February 27, 1883.

Application filed November 15, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, NELSON C. NEWELL, 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 the construction of buttons, composed of a cloth face and a back of hard material—such as hard rubber, plastic material other than the latter, and vegetable ivory—and is in the nature of an improvement upon my patent of July 23, 1878, No. 206,348, the object being to provide improved fastening devices for uniting said face and back, whereby the danger of breaking the parts in the course of manufacture and of the cracking and serious injury to the buttons after they are finished by shrinkage of said backs are obviated.

In the drawings forming part of this specification, Figure III is a plan view of the shank side of a button embodying my invention. Fig. II is a section on the line *xx*, Fig. III. Fig. I is a section of the back of the button. Fig. IV is a plan view, and Fig. V a side elevation, of the uniting-eyelet of the button.

In the drawings, *d* is the back of the button or rear shell of ivory or plastic material. *e* is the border thereof. *b* is the cloth-covered button, having the usual sewing-shank, *m*. *f* indicates the usual metallic collet on the back of a cloth-covered button. *h* is an eyelet, provided with one or more slots, *c*.

The cloth-covered button *b* is made substantially like an ordinary button of this kind, excepting that before the collet *f* is crimped onto the back the eyelet *h* is put through its central shank-hole, leaving the flange of said eyelet inside of said collet and between the latter and the button proper, when the collet is secured to the latter, as shown in Fig. II, and the cloth shank *m* of the button is within said eyelet. The above-named parts are, as just described, made ready for the application of the back *d*.

Heretofore the eyelet *h* has been made having the usual flange and a cylindrical body

having continuous or unbroken sides; but I have found in practice that it is essential that said eyelet should be otherwise made, so that it will, when embodied in the finished button, possess compressible, elastic qualities in a direction across its diameter, and therefore I provide in the cylindrical part of said eyelet one or more slots, *c*, extending from one end toward its flanged end, as shown in the drawings. The aforesaid compressible elastic qualities in said eyelet are required in a button having a back of plastic material or of vegetable ivory, owing to the liability of said backs to be broken in process of manufacture when an ordinary unbroken eyelet is forced against said back hard enough to turn a flange outside of the latter, whereby it is secured to the cloth button *b*, as shown in Fig. II, and, furthermore, an eyelet that will remain elastic after having been forced into said flanged shape in a finished button is quite as essential to the permanency of the button construction, owing to the fact that the above-named materials from which the backs *d* are made are liable to considerable shrinkage, and when secured in the common way upon a rigid eyelet they become, by reason thereof, broken and ruined, whereas when an elastic eyelet is used no such breakage occurs.

The aforesaid parts *b* and *h* having been prepared, as described, for uniting them to the back *d*, the latter is placed upon the back of the cloth button *b*, the shank *m* and the slotted cylindrical part of the eyelet projecting through it, and the edge of the latter is forced outwardly and against said back, forming a divided flange, as shown in Fig. III, whereby said parts are secured together.

What I claim as my invention is—

In a compound button consisting of a cloth face and of a back of other material, substantially as described, a uniting-eyelet having one or more slots in its body, substantially as and for the purpose set forth.

NELSON C. NEWELL.

Witnesses:

B. F. HYDE,  
H. A. CHAPIN.