

A. S. FERNALD.
Button.

No. 203,022.

Patented April 30, 1878.

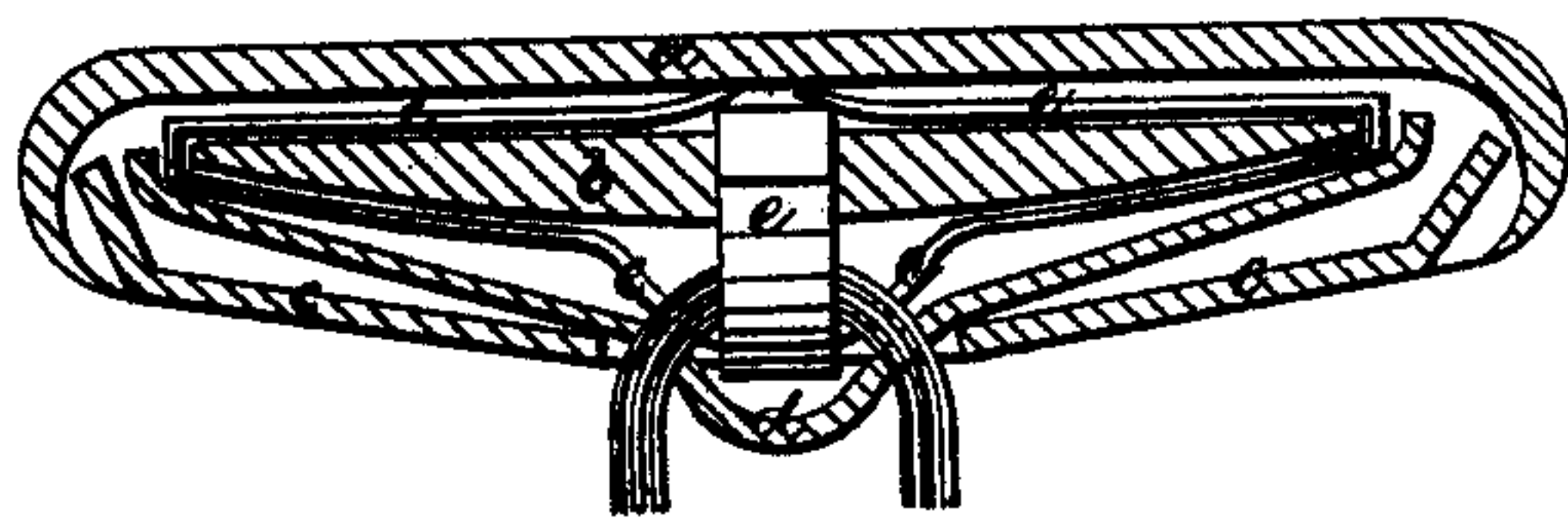


FIG. 1.

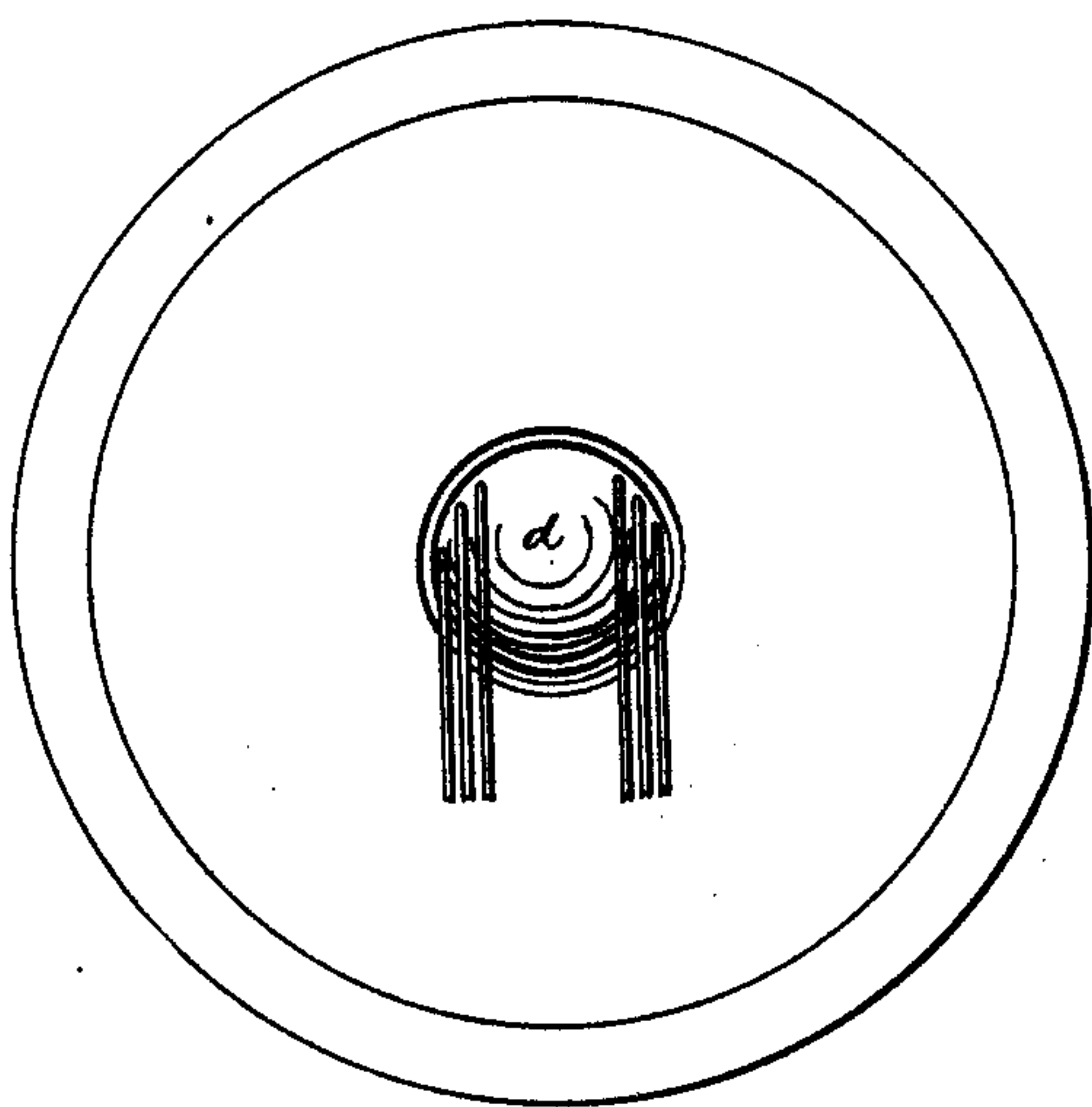


FIG. 2.

WITNESSES:

Chas. H. Kimball.
Chas. J. Mooney.

INVENTOR:

Augustine S. Fernald
Per Atty.
Wm. Henry Clifford

UNITED STATES PATENT OFFICE.

AUGUSTINE S. FERNALD, OF PORTLAND, MAINE.

IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. 203,022, dated April 30, 1878; application filed January 28, 1878.

To all whom it may concern:

Be it known that I, AUGUSTINE S. FERNALD, of Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Buttons; and I do hereby declare that the following is a full, clear, and exact description of my invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side view, in section, and Fig. 2, a bottom plan and view.

Same letters show like parts.

My invention relates to certain improvements in buttons, by which their strength and durability are increased.

a shows the cover or top of a button; *b*, the disk or plate placed within and between *a* and the bottom plate *c*. *d* is the point or bunch of cloth which projects through the bottom plate *c* to receive the needle when sewing to a garment, and for the purpose of attaching the button to a garment. This part is pushed through a hole made in the center of the part or plate *c*. In this way buttons are now commonly made. They are apt to tear out by reason of the cloth piece *d* giving way. My invention seeks to remedy this defect.

With that view I bend or clasp around the disk *b* certain strips of metal, wire, or any substance fit for the purpose, in such manner as to project a little from the bottom side of *b*, so as to protrude through the hole in the bottom part *c*, with the cloth *d*. In other words, within the cloth bunch *d*, when projecting through the hole in *c*, are also the wires or strips, which are clasped or bent around the

disk *b*. When the wires or strips are thus bent or clasped around the disk *b*, they are, in the complete button, held compressed between the parts *a* and *b*, and so effectually prevented from being pulled out. These wires cross each other where they project through *c*, as illustrated in the drawing. They thus have spaces between them. Into these spaces and through the point of cloth *d* the needle is thrust in sewing the button to a garment. Thus the sewing-threads, passing over the wires or strips which pass up over *b* are held with all the strength of the threads and the wires. The strain is taken off from the cloth *d*, which has heretofore been apt to tear out.

The strips or wires can be bent around or secured to the disk *b*, or both, as desired.

It is plain that great strength and simplicity of structure are obtained by this invention.

The wires are seen at *e* of the drawings.

What I claim, and desire to secure by Letters Patent, is—

A button provided with the disk described and shown at *b*, when furnished with the strips or wires *e*, as set forth, passing up over the top side of the disk *b*, and there held by being compressed between the parts *a b*, as described, and arranged at the bottom so as to protrude through the hole in the bottom part *c*, and adapted to receive the sewing-threads, as specified.

In testimony that I claim the foregoing as my own I affix my signature in the presence of two witnesses.

AUGUSTINE S. FERNALD.

Witnesses:

CHARLES E. CLIFFORD,

WILLIAM HENRY CLIFFORD.