(No Model.)

H. C. LUTHER.

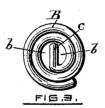
BUTTON EYE.

No. 310,898.

Patented Jan. 20, 1885.









Henry be Luther per S. Saholfield Ottorney

United States Patent Office.

HENRY C. LUTHER, OF PROVIDENCE, RHODE ISLAND.

BUTTON-EYE.

SPECIFICATION forming part of Letters Patent No. 310, 898, dated January 20, 1885.

Application filed November 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. LUTHER, of Providence, in the State of Rhode Island, have invented an Improvement in Button-Eyes, of which the following is a specification.

My invention relates to the construction of fastening-eyes adapted for the manufacture of glass or composition buttons; and it consists in the improved combination of a spirally-10 wound wire collar with a separately-formed eye, as hereinafter set forth.

Figure 1 is an elevation of my improved button eye and collar. Fig. 2 is a sectional view of the same. Fig. 3 is a plan view of the spirally-wound wire collar. Fig. 4 is a separate elevation of the button-eye without the collar.

In the accompanying drawings, A is the eye, formed of wire, the end portions of the wire beyond the turned eye being arranged to form the shank aa, adapted for the purpose of attachment to the collar B, as shown in Figs. 1 and 2. The collar B, which serves to prevent the melted glass from flowing into the eye A when under the compressing action of the forming-dies, is made by winding a piece of wire in an involute spiral form, as shown in Fig. 3. At the initial starting-point of the spiral of the coil B are formed the two openings bb, adapted

for the reception of the shank-wires a a of the 30 eye A, the wires a a being separated from each other by the initial winding end c of the collar B. My improved button-eye is adapted for manufacture by means of automatic machinery, and may be successfully made without 35 waste of stock, which is a matter of importance in such articles.

I am aware that a button-collar made of wire is not new, and that a collar made to yield to the contraction of the glass head of 40 the button has been heretofore used; but I am not aware that such a collar has ever been made in circular form without a necessary waste of material in its manufacture, which waste is overcome by my invention. I do not, 45 therefore, make a claim to a yielding collar for the eyes of glass buttons; but

I claim as my invention—
The combination of the eye provided with the shank-wires with the involute spiral wire 50 collar provided with openings for the reception of the shank-wires at opposite sides of the initial end of the wire coil of the collar, substantially as described.

HENRY C. LUTHER.

Witnesses:

DEXTER B. POLTER, SOCKATES SCHOLFIELD.