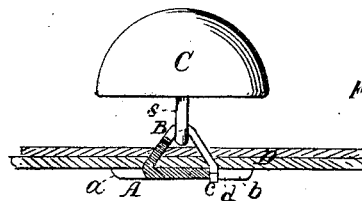
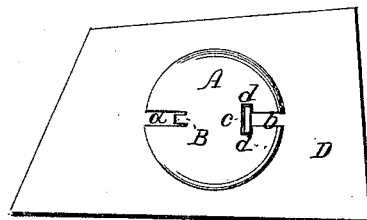
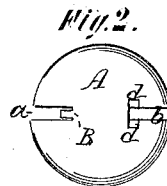
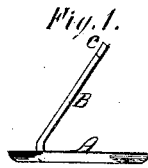


*E. F. Lee,*  
*Button.*

*No. 109,134.*

*Patented Nov. 8. 1870.*



*Witnesses:*  
*Thos. H. Hayes*  
*P. R. Rabeau*

*Edwin F. Lee*

# United States Patent Office.

EDWIN F. LEE, OF NEW YORK, N. Y.

Letters Patent No. 109,134, dated November 8, 1870.

## IMPROVEMENT IN BUTTON-FASTENINGS.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, EDWIN F. LEE, of the city, county and State of New York, have invented a new and useful Improvement in Button-Fastenings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a side view of my improved button-fastening, before the same is closed in its attachment of the button; and

Figure 2, a plan or rear view thereof under like conditions;

Figure 3 is a like view to fig. 2, after the tongue of the fastening has been projected through one or more thicknesses of material and been closed in its attachment of a button; and

Figure 4, a partly-sectional side view of the fastening under the conditions described in fig. 3.

Similar letters of reference indicate corresponding parts.

My invention consists in a button-fastening which may be formed or struck and drawn out of a single piece of metal, and which comprises a disk and tongue, the latter projecting from the one side of the disk within its edge, and being formed with a swell or locking projection on its outer end, and bent to occupy an angular position relatively to the face of the disk, for projection through the material to which the button is to be attached, and, after being passed through the looped shank of the button, for return through the material and lock with the disk by its fit through a slot in the opposite side or edge of the disk and compression of its outer end into a recess formed at the inner end of said slot.

This is at once a cheap and efficient fastening, which may be readily applied without the aid of special tools other than an ordinary awl and pliers, and, while applicable as a button-fastening generally, will be found particularly serviceable for fastening buttons on boots and shoes.

Referring to the accompanying drawing—

A represents a head or disk, made of metal or other suitable material combining the requisite stiffness and flexibility.

Said disk is formed with oppositely-arranged transverse slots, *a b*, in it, running from its edge toward the

center of the disk. The metal struck out of the disk in making the slot *a* is left attached to the disk at the inner end of said slot, and is drawn or formed into a tongue, B, of the requisite length to complete the fastening, as hereinafter described, and with a spread or flattened-out portion, *c*, at its outer end. Said tongue is then bent to incline or project from the face of the disk, as represented in fig. 1.

At the inner extremity of the slot *b* in the opposite side of the disk, a recess, *d*, is formed in the back of the disk, corresponding in shape, or thereabout, to the swell *c* on the end of the tongue.

To apply the fastening to a button C, for the purpose of holding the latter to one or more thicknesses of material, D, the tongue B is projected through the material from its back or inner side, and, after being passed through the looped shank S of the button, is then returned through the material and passed through and along the slot *b*, and its swelled end *c* afterward pressed down to lock or lie within the recess *d*, as represented in figs. 3 and 4 of the drawing.

This effects a close fit of the disk against the material, and a secure hold of the button, with freedom of play for the latter, to facilitate buttoning.

An ordinary awl may be used to form the punctures in the material for the tongue to pass through, when the material is of a nature that does not admit of the tongue being self-penetrating; and the bending of the tongue, to effect its return passage through the material and lock with the disk, be accomplished by an ordinary pair of pliers, or otherwise.

The tongue B might be made of a separate piece from the disk, and be welded or soldered to the latter; but this is not as desirable as making it out of the same piece with the disk.

What is here claimed, and desired to be secured by Letters Patent, is—

The button-fastening, constructed substantially as described, of a disk or head, A, having a slot, *b*, in it, and recess *d*, in combination with a tongue, B, formed with a swell or locking projection to fit within the recess of the disk, essentially as specified.

EDWIN F. LEE.

Witnesses:

FRED. HAYNES,  
R. E. RABEAU.