

(No Model.)

2 Sheets—Sheet 1.

H. H. CUMMINGS.

METHOD OF SECURING BUTTONS TO FABRICS.

No. 502,034.

Patented July 25, 1893.

Fig. 1.

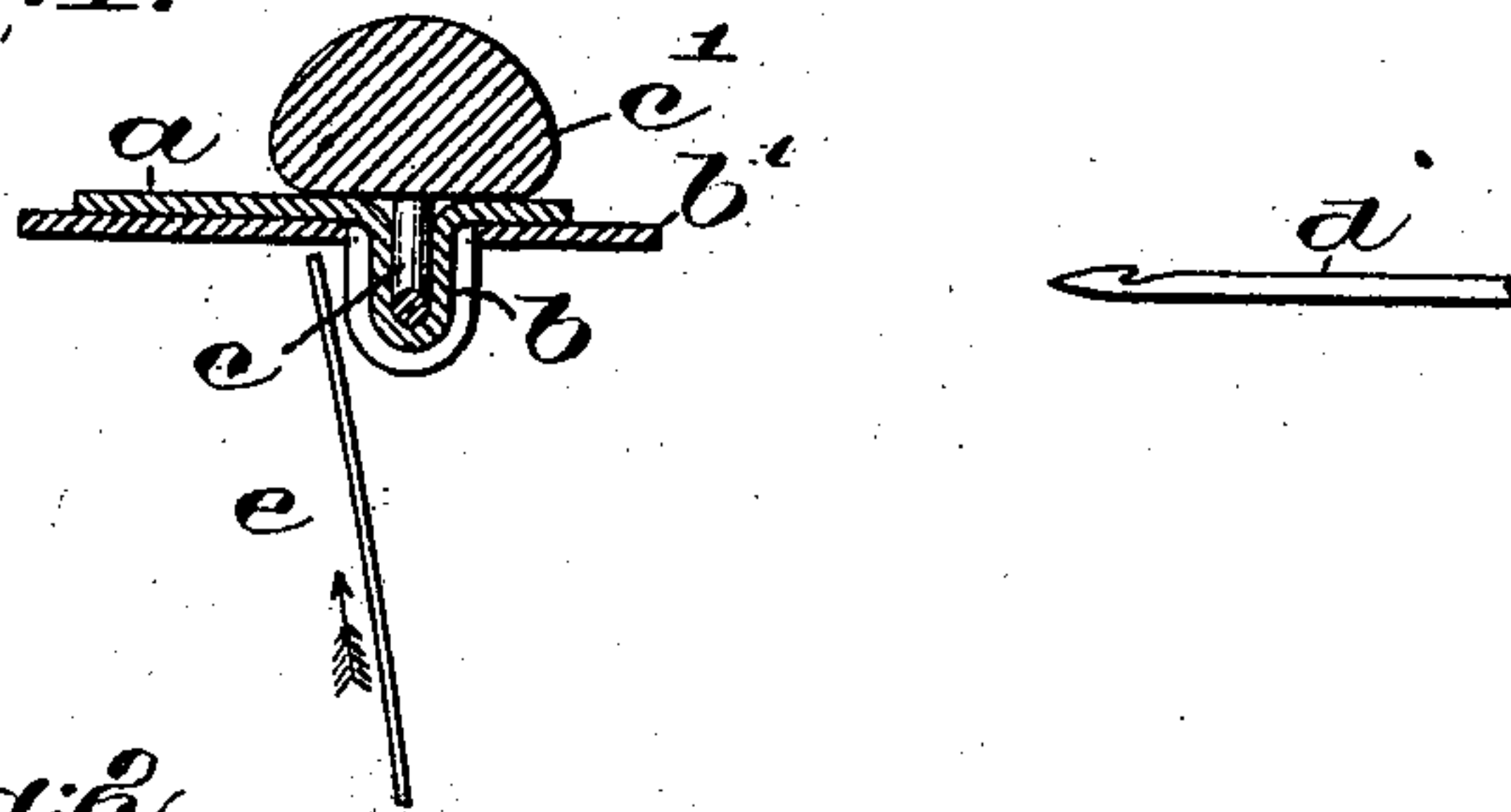


Fig. 2.

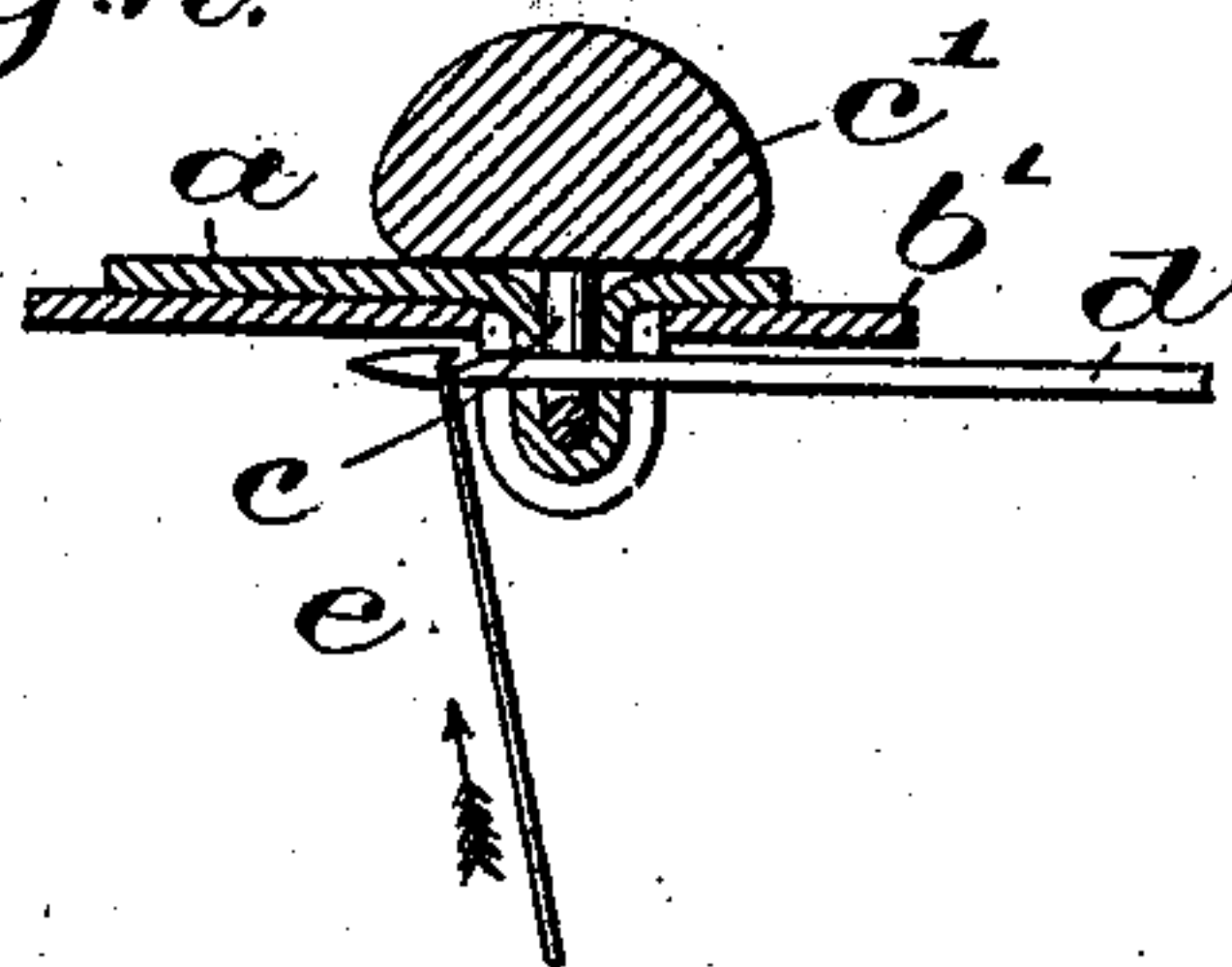


Fig. 3.

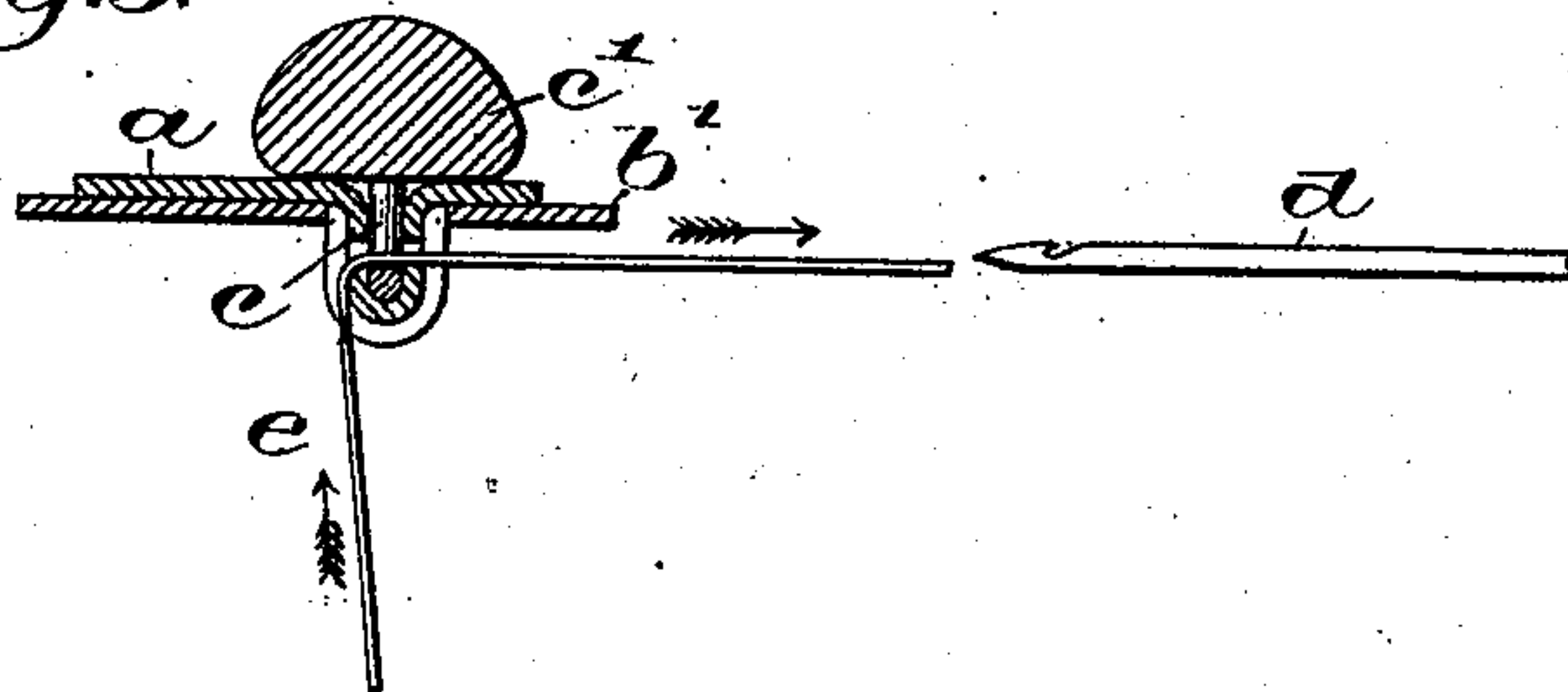
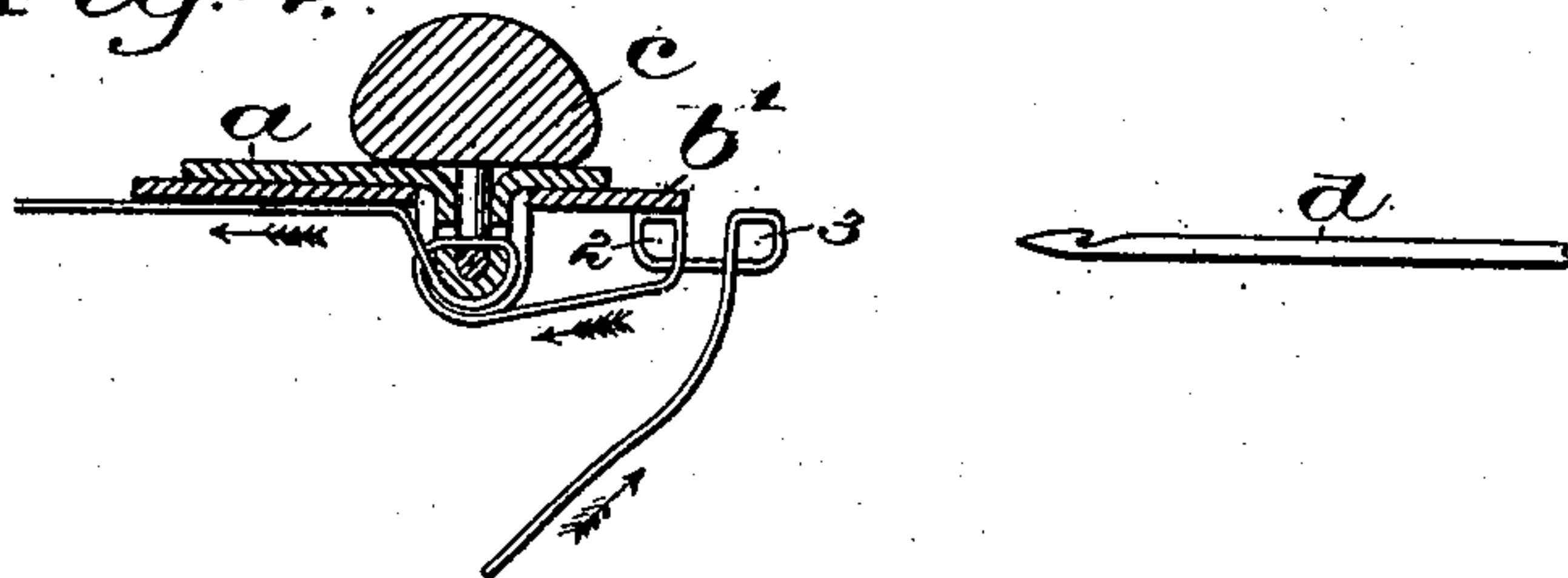


Fig. 4.



Witnesses

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Louis W. Couell

Inventor.

Henry H. Cummings  
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(No Model.)

2 Sheets—Sheet 2.

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Fig: 5.

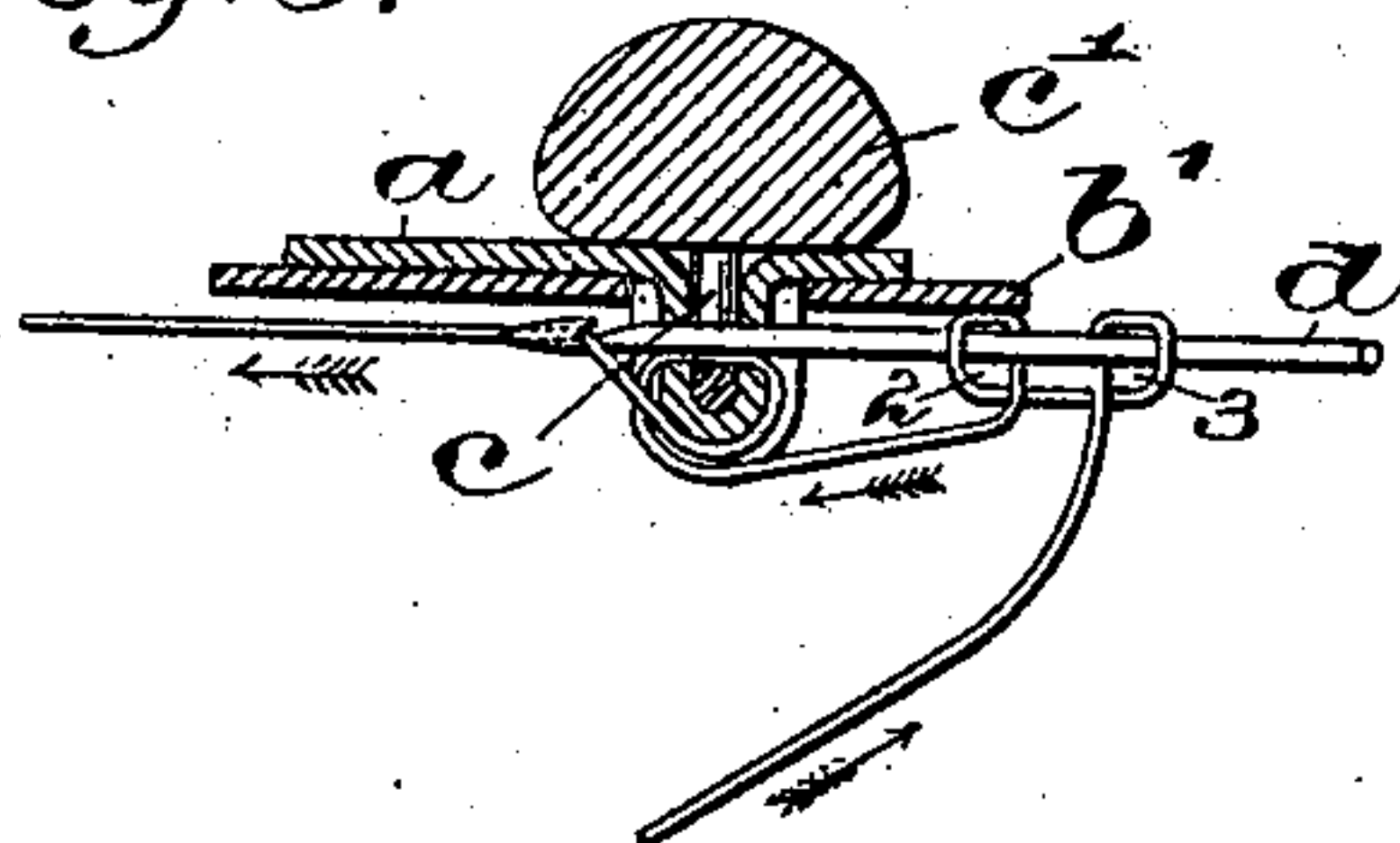


Fig: 6.

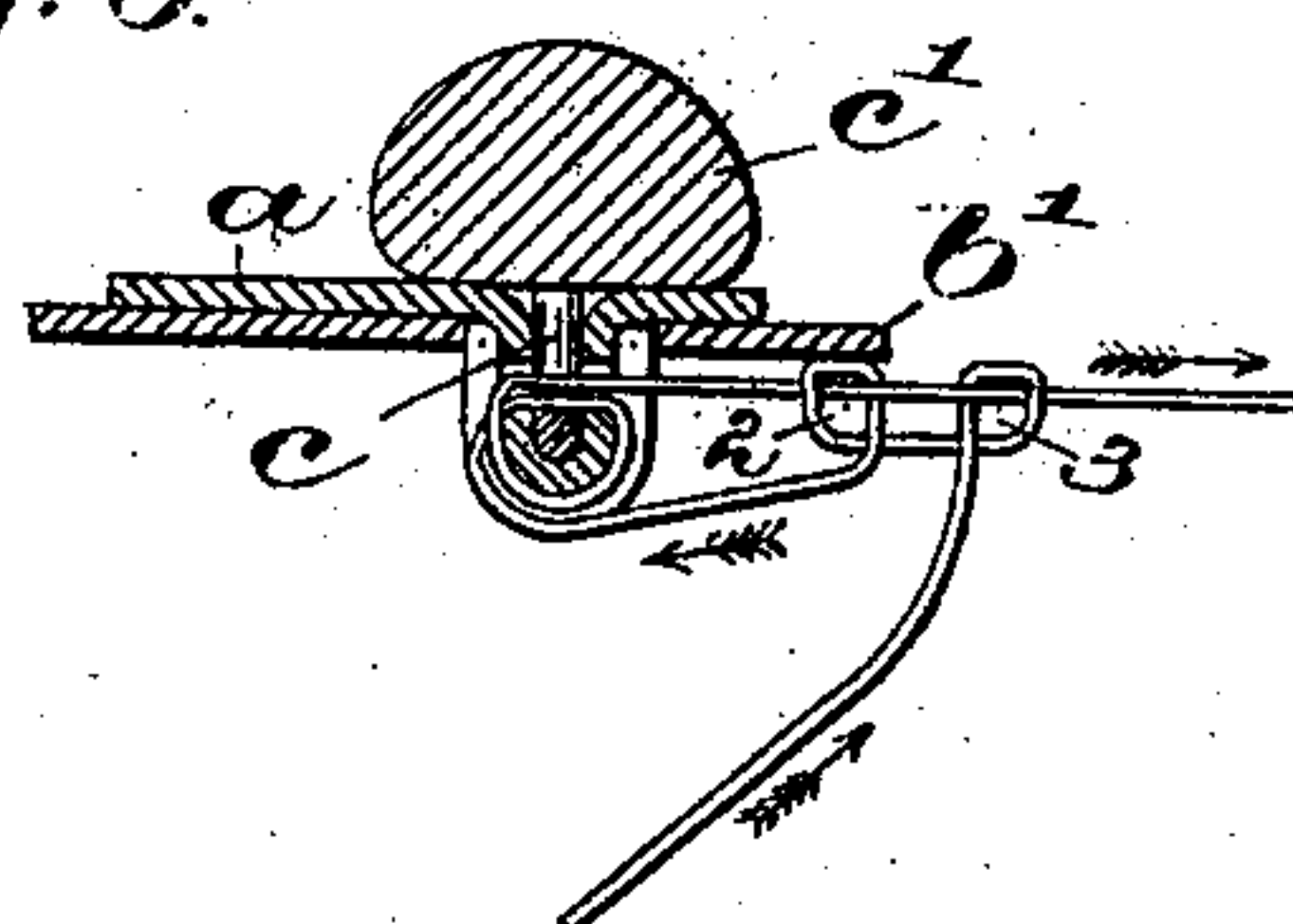


Fig: 9.

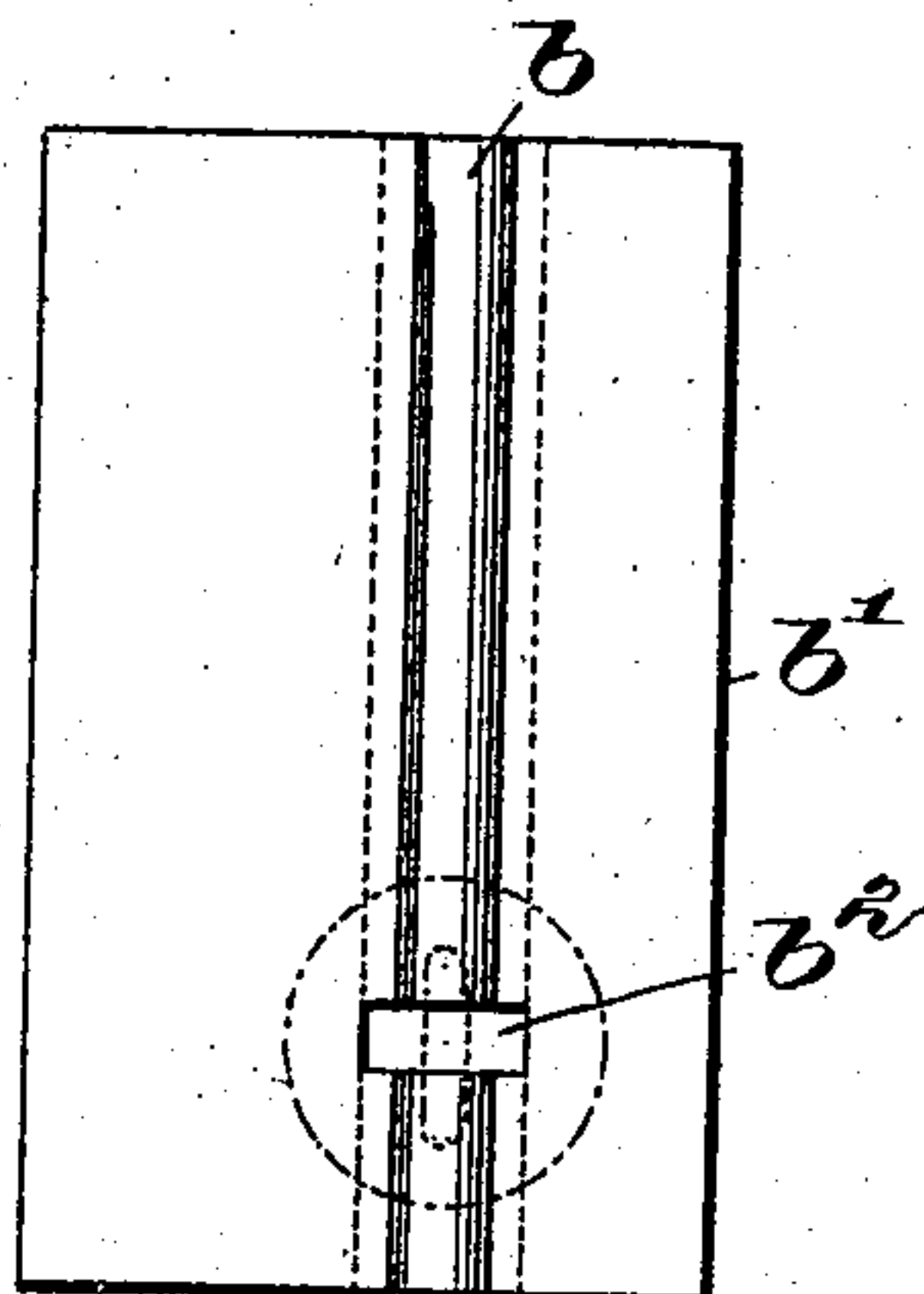


Fig: 7.

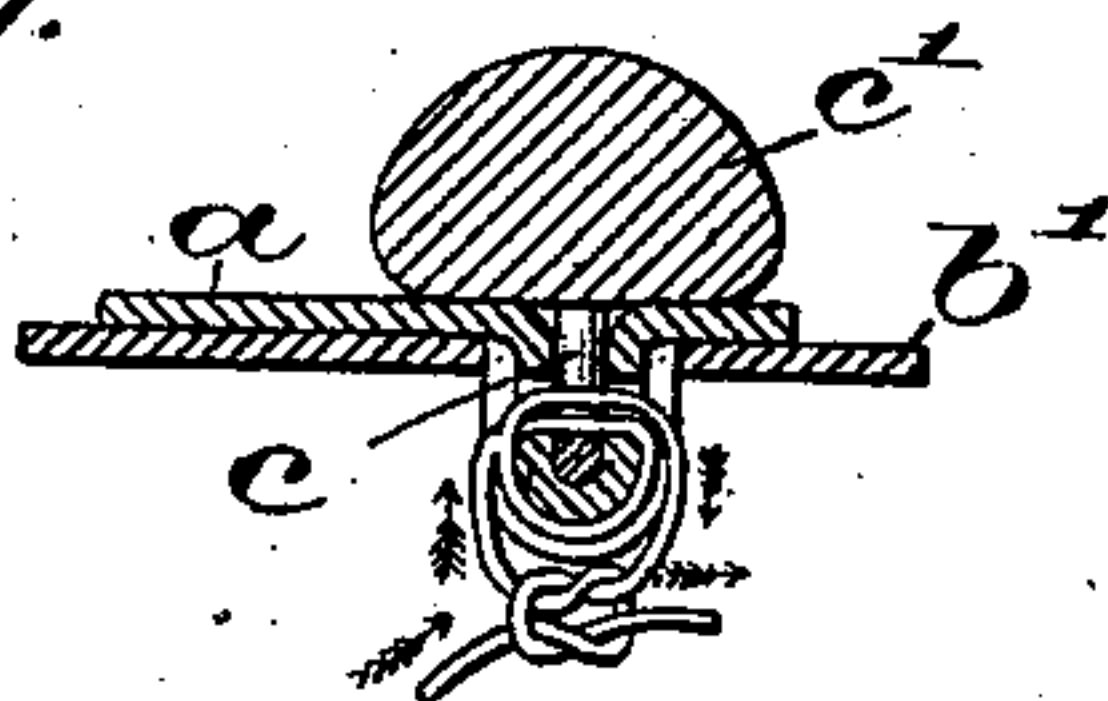
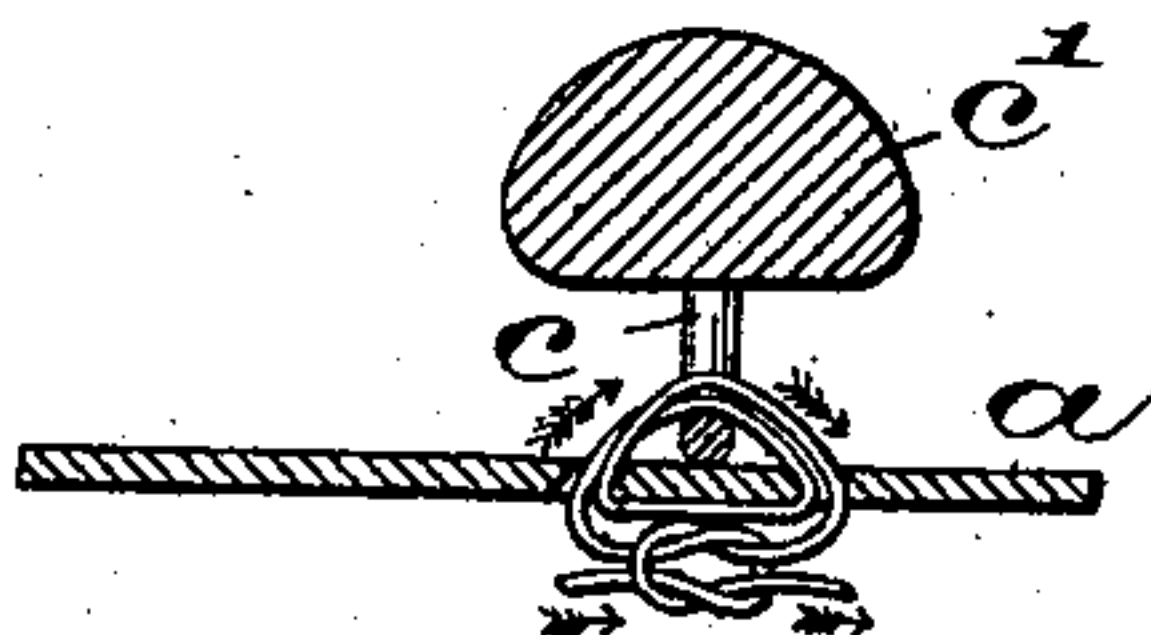


Fig: 8.



Witnesses:

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# UNITED STATES PATENT OFFICE.

HENRY H. CUMMINGS, OF MALDEN, MASSACHUSETTS.

## METHOD OF SECURING BUTTONS TO FABRICS.

SPECIFICATION forming part of Letters Patent No. 502,034, dated July 25, 1893.

Application filed October 8, 1892. Serial No. 448,253. (No specimens.)

*To all whom it may concern:*

Be it known that I, HENRY H. CUMMINGS, of Malden, county of Middlesex, State of Massachusetts, have invented an Improvement in Methods of Securing Buttons, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

Much attention has been given to attaching buttons to shoes, and this has been done automatically by threads manipulated by a needle or needles in a sewing machine, the thread used being extended from button to button at the inner side of the shoe. Buttons have also been secured to shoes by means of staples clinched at the inner side of the leather.

I have aimed to improve and simplify the method of applying shanked buttons to shoes by means of a thread, and I have succeeded in doing this by means of a single thread which is tied in a knot at the inner side of the material.

Figures 1 to 8 show a piece of material, and a button, the different views showing the different steps of my method. Fig. 9 is a view showing the throat plate detached.

In accordance with my invention the material *a* is bent into the groove *b* of a trough or plate *b'*, having a throat *b<sup>2</sup>*, and the eye *c* of the button *c'* is placed in the bend in the material in the groove *b* as in Fig. 1. I then take a hooked needle as *d*, thrust it through the material and the eye of the button, as in Fig. 2, and supply the hook of the needle with a suitable thread as *e*, and the free end of the said thread, taken from a suitable spool or guide, not shown, is drawn through the material and the eye of the button as in Fig. 3. After this the free end of the thread at the right of the button Fig. 3 is carried across under the material as in Fig. 4 to the left, and the part of the thread coming from the spool is carried across under the material to the right, as also shown in Fig. 4, and this part of the thread is twisted to form two loops or coils 2, 3. The needle *d* is then thrust forward from the position Fig. 4 through the two loops 2, 3 and through the material and the eye of the button as in Fig. 5, and the free end of the thread carried, as stated, across

under the material as shown in Fig. 4, is caught, see Fig. 5, by the hook of the needle and the said free end is again drawn through the material and the eye of the needle in the same direction as in Fig. 3, and also through the two loops 2, 3, as in Fig. 6, and then while the free end of the thread is held below the material and button, the main body of the thread and the free end thereof are drawn upon until the loops 2 and 3 are drawn into a hard knot, see Fig. 7, after which the material is removed from the groove and permitted to resume its normal flat condition as in Fig. 8, leaving the button fastened to the material by two passages of thread through the eye of the button and the material, the ends of the thread being drawn into a hard knot at the inner side of the material.

With a proper sized thread this method of joining the button to leather may be quickly and economically practiced, the junction being very secure.

The needle may be of the curved variety, in which event the material need not be as much bent as in Fig. 1 when the needle is straight.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The method of attaching shanked buttons to leather and other material or fabric, which consists in bending the material about the shank of the button, drawing the free end of a thread through the material and the eye of the button, crossing the free end of the thread and its main body under the material, making two loops or coils in such body of the thread and drawing the free end of the thread through the material and the eye of the button and also through the two loops or coils and then drawing the thread thus passed through the loops or coils into a hard knot under the material, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY H. CUMMINGS.

Witnesses:

G. W. GREGORY,  
EMMA J. BENNETT.