

C. F. Spencer,
Button.

No. 62,784.

Patented Mar. 12, 1867.

Fig. 2.

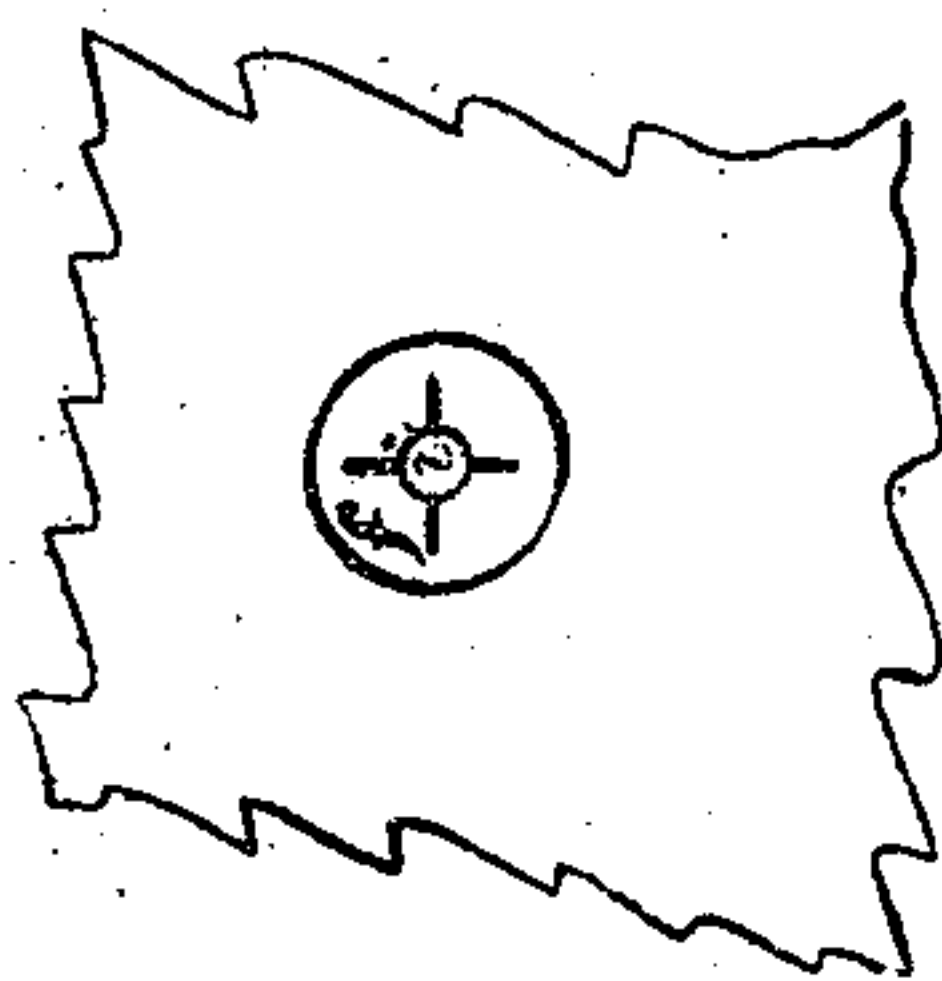


Fig. 4.

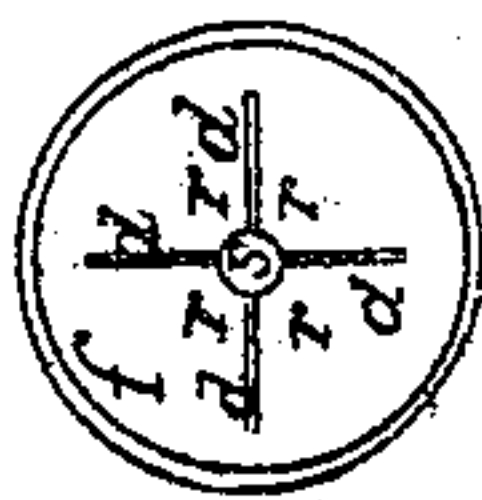


Fig. 3.

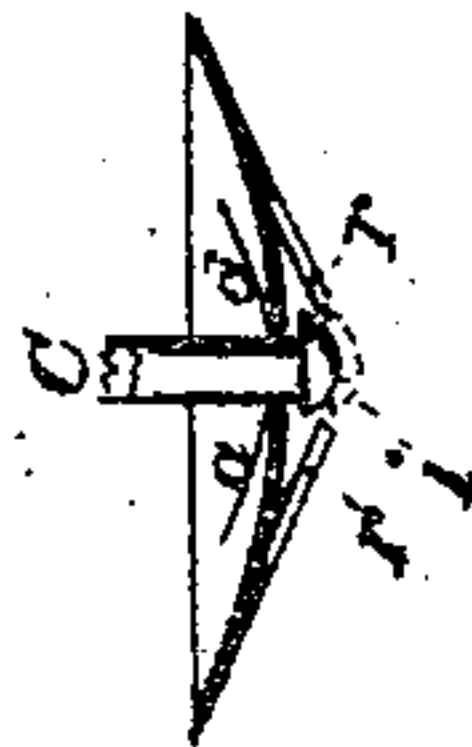
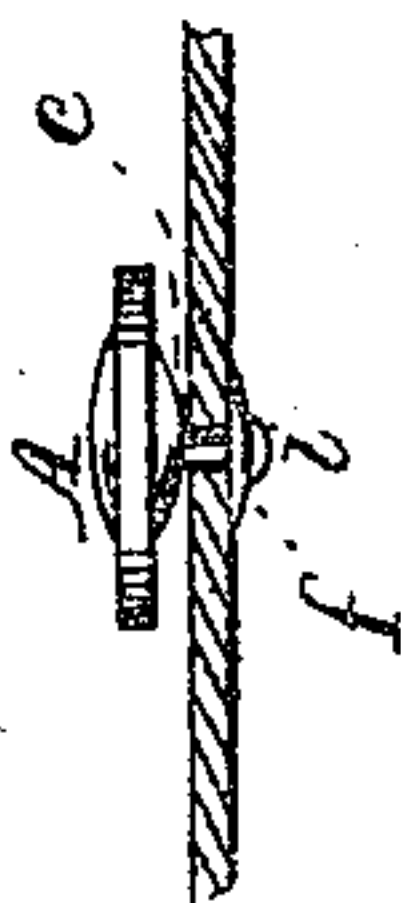


Fig. 1.



Witnesses:

Jay Hyatt.

Charles Fleisch

Chas. H. Spencer

United States Patent Office.

CHARLES F. SPENCER, OF ROCHESTER, NEW YORK.

Letters Patent No. 62,784, dated March 12, 1867.

IMPROVEMENT IN SECURING BUTTONS TO GARMENTS.

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, CHARLES F. SPENCER, of the city of Rochester, in the county of Monroe, and State of New York, have invented a certain new and improved Self-Fastening Button; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation of a button, fastened to the cloth by means of my improvement.

Figure 2 is a view, showing the appearance of the fastening device on the inner side of the cloth or garment.

Figure 3 is an enlarged cross-section of the inner plate or disk, showing the manner of securing the stem of the button therein.

Figure 4, a view of the concave side of the disk, or that side next to the cloth.

Like letters of reference designate corresponding parts in all the figures.

My improvement relates to that class of buttons called self-fastening, which are attached to the cloth or garment without sewing; and the invention consists in the employment of a disk on the inner side of the cloth of the peculiar construction herein described, in combination with the stem or shank of a button, provided with a head, by which means the button is firmly secured to the cloth in a most simple, easy, and effective manner, as hereinafter fully set forth.

In the drawings, A represents the outer disk, or portion constituting the button proper; c, the stem or shank of the same, secured thereto in any desired and suitable manner, and of sufficient length to extend through the cloth or other material to which it is to be attached, and thence through a metal disk or plate f, where it terminates in a head, i. The disk f is provided with a central hole, s, of the size of the stem c, and with slits or incisions d d, (four being sufficient,) cut, preferably, radially from the hole s, and extending about two-thirds the distance to the circumference, dividing the central portion of the disk into sectors or angular parts r r. These disks may be stamped from any suitable metal, as brass, by a single blow, and are "struck up," so as to give the outer side, when attached to the garment, a slightly rounded surface, as clearly shown in fig. 3. for a purpose presently to be explained.

The button, thus constructed, is secured to a garment in the following manner: The stem c is first inserted through the material to which the button is to be secured, the rounded or pointed head i enabling this to be most readily done, with or without a hole being first made with a bodkin, which is required where the cloth is of close texture, or of several thicknesses. The head i is then pressed through the disk f from the concave side, as shown in fig. 3, the points r r surrounding the hole s in the disk being pressed outward, as represented in red lines, (fig. 3,) to allow the head to pass, when they spring back to their former position, (shown in black lines in same figure,) preventing its withdrawal; for the points or stops r inclining outward, as they do, owing to the rounded surface of the disk, act not only as stops against the projection of the head i, but also as wedges against the stem or shank itself on all sides, whenever any power is exerted to withdraw the head, in such a manner as to render it absolutely impossible to separate the two by any strain that is ever brought to bear upon a button.

Another advantage of my improvement is that there is much less liability of the button being detached from the garment by the cloth to which it is sewed or otherwise fastened being torn out, as is frequently the case where the cloth is thin, or of a loose texture; for whenever any force is exerted against the disk, being of the form described, its outer edge acts as a clamp against the cloth the whole distance around, and by distributing the strain over a larger surface thereby enables it to better resist the same. It is evident that my improvement may be applied to the ordinary covered button, as well as to those made entirely of metal. It forms not only a most reliable mode of fastening, but is the most simple and cheap of construction of any device for the purpose with which I am acquainted. My mode of fastening forms a pivot, so that the button may freely turn therein, which relieves the fastening, in a great measure, of the strain to which it is subjected by the turning or twisting motion that is given to the button while inserting it in the button-hole, and in the case of covered buttons it distributes the wear upon all portions equally.

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

The disk f, constructed substantially as described, in combination with the stem or shank c of a button, provided with a head, i, arranged and operating substantially as and for the purpose set forth.

In witness whereof I have hereto signed my name in the presence of two subscribing witnesses.

CHAS. F. SPENCER.

Witnesses:

JAY HYATT,

CHARLES FLESCH.