

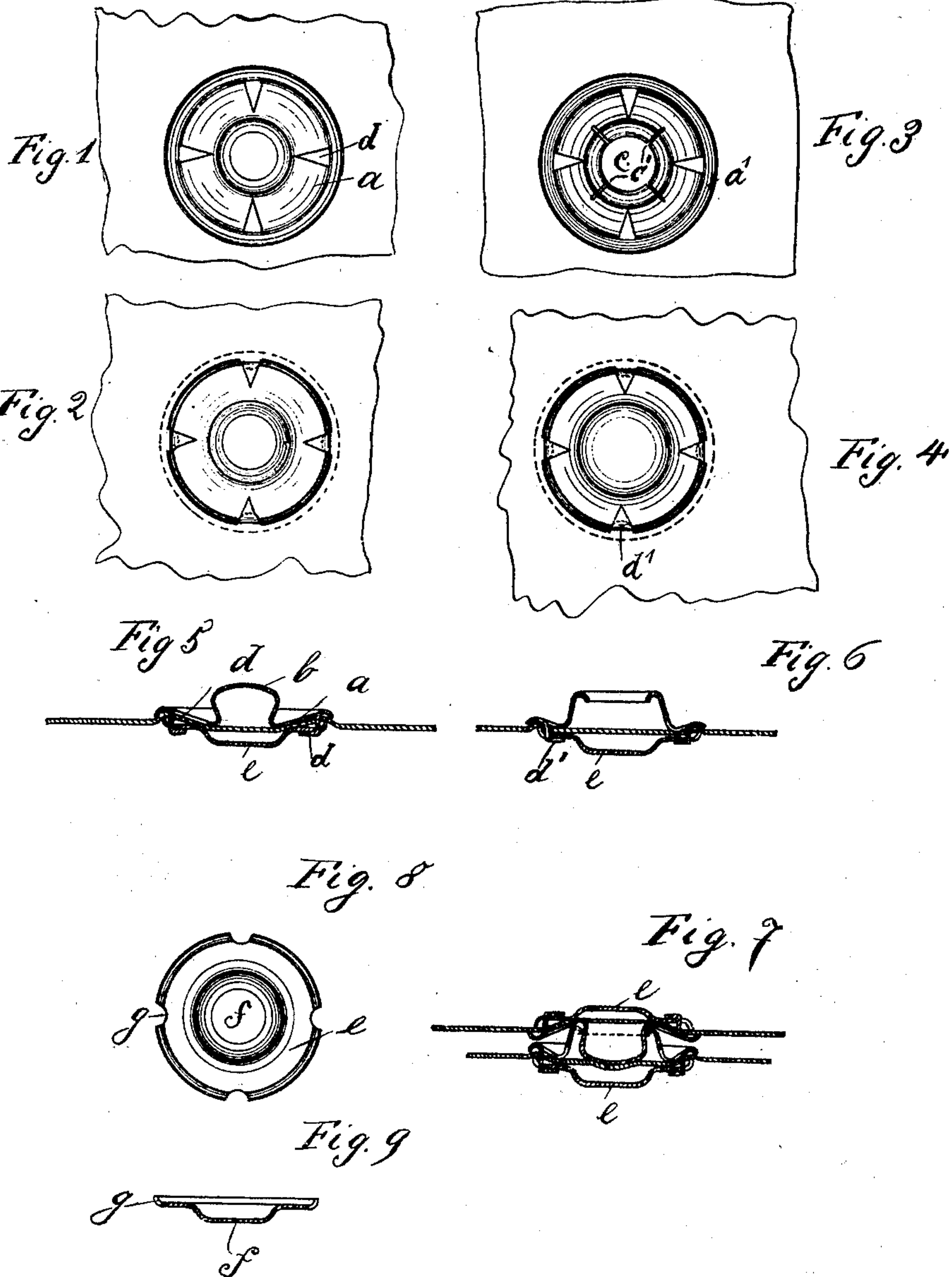
No. 719,067.

PATENTED JAN. 27, 1903.

J. WETZLER.  
SPRING BUTTON.

APPLICATION FILED JULY 7, 1902.

NO MODEL.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JULIUS WETZLER, OF BARMEN, GERMANY.

## SPRING-BUTTON.

SPECIFICATION forming part of Letters Patent No. 719,067, dated January 27, 1903.

Application filed July 7, 1902. Serial No. 114,622. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS WETZLER, a subject of the German Emperor, residing at Barmen, in the Province of Rhenish Prussia, Germany, have invented a new and Improved Spring-Button, of which the following is a clear, full, and exact description.

My invention relates to the construction of a novel spring-button, the object of the invention being to construct a button each member of which consists only of two parts and is so fastened to the fabric that no injury of the fabric or the fingers by the fastening-prongs may be done.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an enlarged view of the stud member seen from above. Fig. 2 is a similar view seen from below. Fig. 5 is a cross-section of said figures. Figs. 3 and 4 are views of the socket members similar to Figs. 1 and 2. Fig. 6 is a cross-section of Figs. 3 and 4. Fig. 7 shows a cross-section of the complete button closed. Figs. 8 and 9 show the washer in view and section.

In constructing the button forming the subject-matter of this application I form from a blank of sheet metal a disk *a*, giving it a cup-shaped form, Figs. 1, 2, 5, with a downwardly-rounded rim. From the center of this disk projects a collar or stud *b*, which is preferably made with the disk *a* of one piece. From the disk *a* are stamped out the prongs *d*, preferably of triangular shape, which are bent downward. In a similar manner is constructed the socket member, Figs. 3, 4, and 6. It consists, essentially, of a cup-shaped disk *a'*, having pressed out and bent downward the prongs *d'*. Instead of a stud it is provided with a socket formed by an annular projection *c*, made in one piece with the disks *a'* and provided with slots *c'* to assume a spring action and hold the stud when being inserted into it.

The manner of fastening the members to the material may be seen from Figs. 5, 6, and 7. The prongs *d d'* are forced through the material, and from the other side of the disk *a* a washer *e* is placed. Said washer is provided at its circumference with recesses *g*, which serve to receive the prongs, so that the same do not extend over the rim of the washer. In the center the washer is provided with a protuberance *f*, which surmounts the prongs, that are bent down upon the washer-face and avoids that the fabric or the fingers of the user may be injured. When both members are fastened to the material, they are pressed together, Fig. 7, and the spring-socket receives the stud *b* and holds it fast in known manner.

It may be mentioned that if the prongs are not long enough when stamped out merely of the disk they may be also partly stamped out of the material forming the stud or socket.

I am aware that spring-buttons have been constructed before my invention in a large number of various kinds, and I do not claim, therefore, such a button broadly; but

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

1. The combination with a disk, having a stud made in one piece with the disk-prongs stamped out of said disk, a washer provided with cut-out portions to receive the prongs and having a protuberance surmounting the prongs for the purpose described and set forth.

2. The combination with a disk, having a spring-socket formed by an annular projection made in one piece with said disk, prongs stamped out of the disk, a washer having cut-out portions to receive the prongs, and a protuberance to surmount them, for the purpose described and set forth.

JUL. WETZLER.

Witnesses:

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