

(No Model.)

F. S. RUDGE.  
ADJUSTABLE BUTTON AND BUTTONHOLE.

No. 488,090.

Patented Dec. 13, 1892.

Fig. 1.

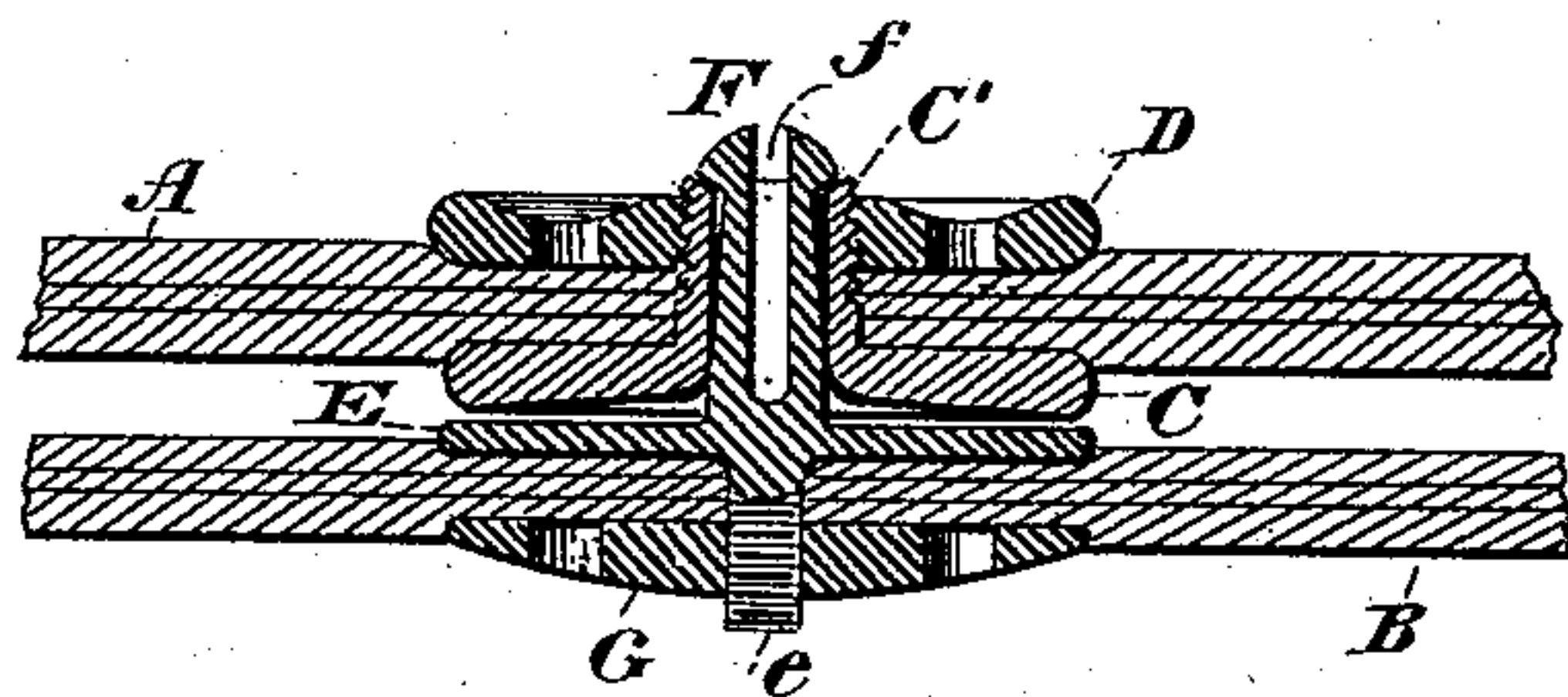


Fig. 2.

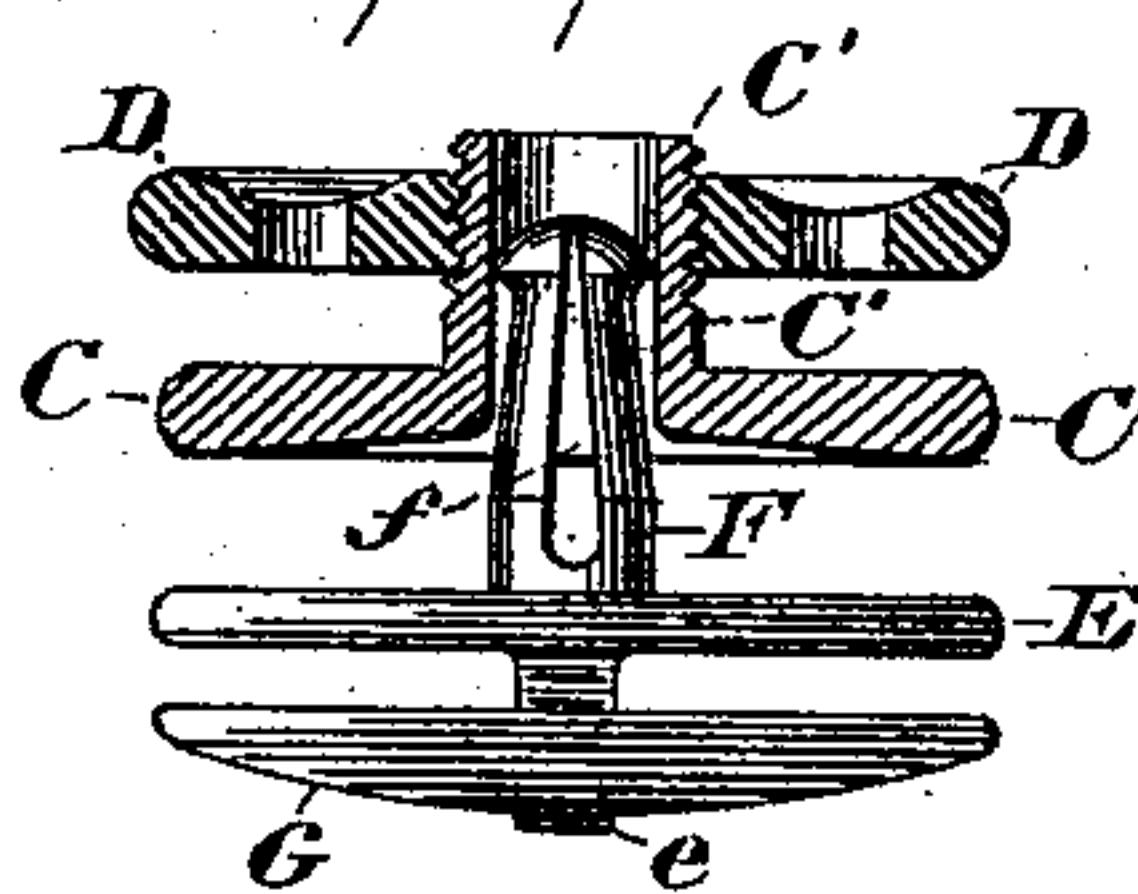


Fig. 3.

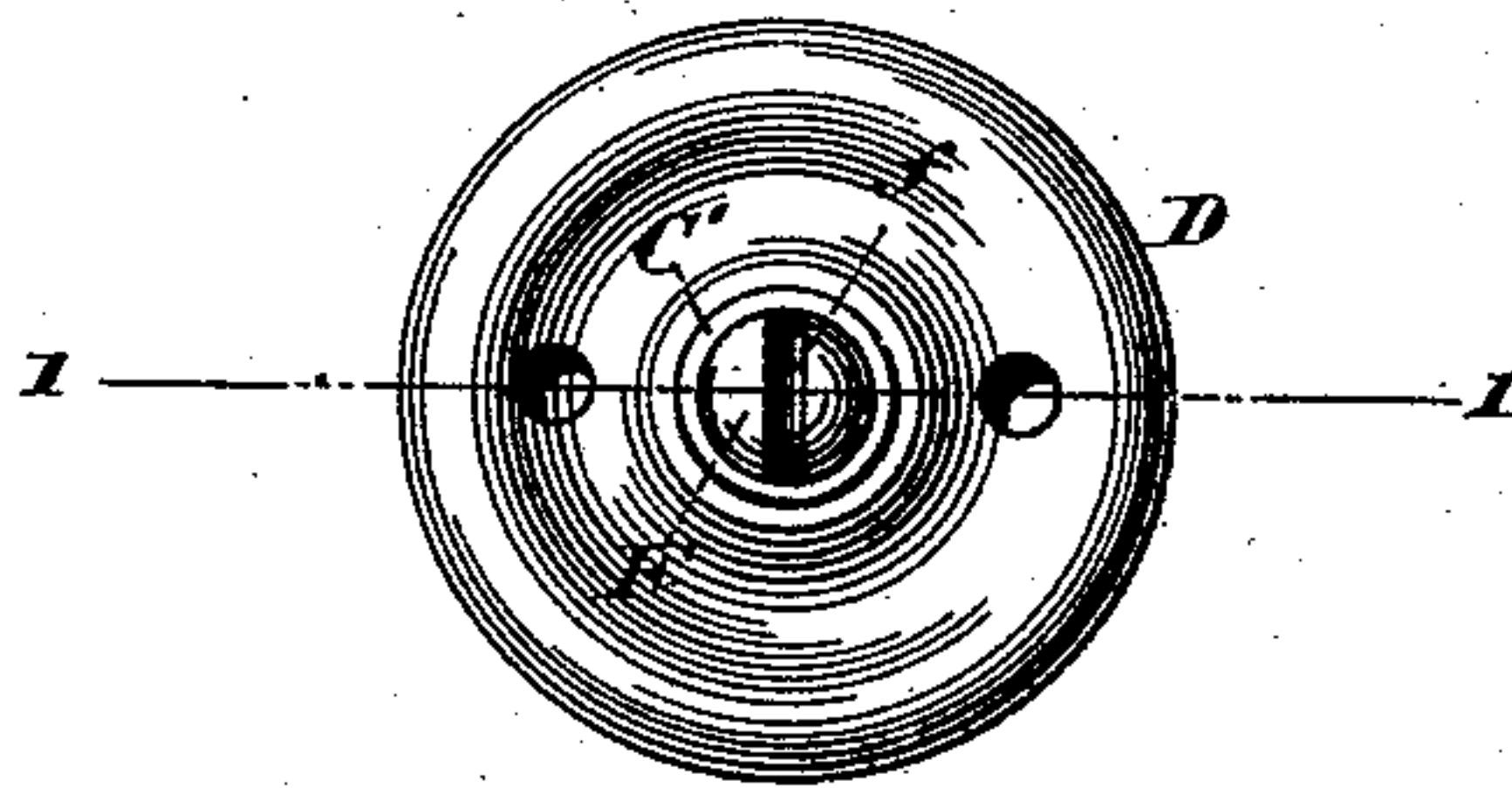
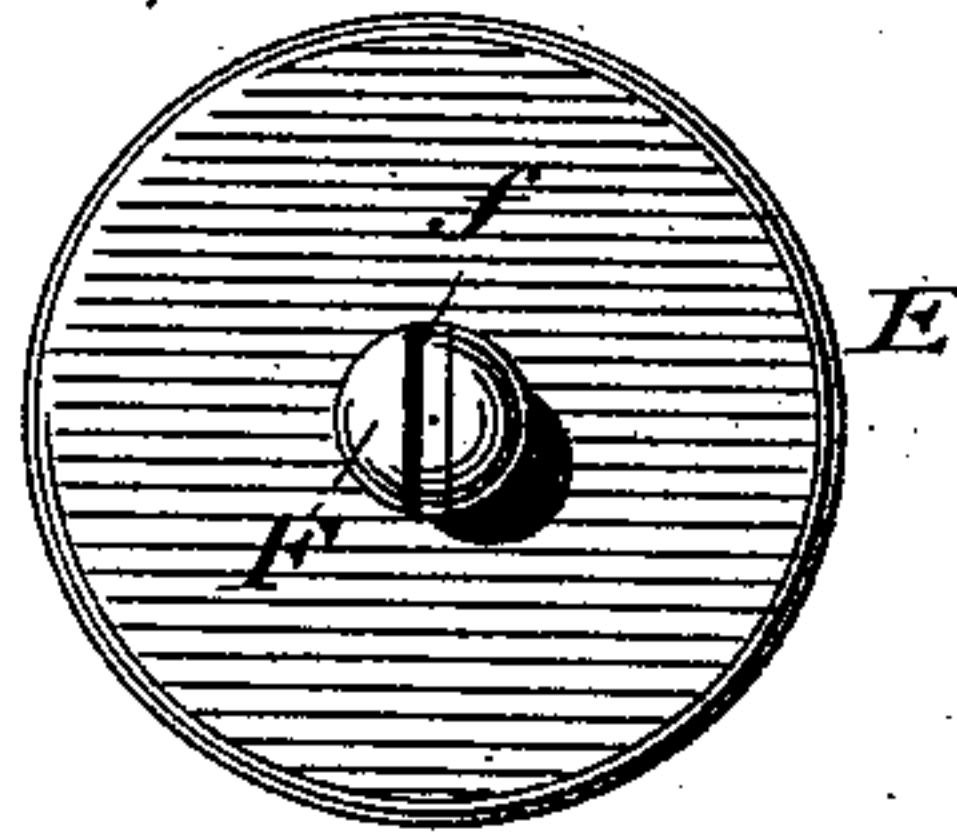


Fig. 4.



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# UNITED STATES PATENT OFFICE.

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## ADJUSTABLE BUTTON AND BUTTONHOLE.

SPECIFICATION forming part of Letters Patent No. 488,090, dated December 13, 1892.

Application filed June 30, 1892. Serial No. 438,591. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK S. RUDGE, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Adjustable Button and Buttonhole, of which the following is a specification.

My invention relates to an improvement in an adjustable button and buttonhole having two sets of disks attachable to separate portions of the desired object, each set of disks being also capable of adjustable connection with the other set of disks.

The objects of my invention are to provide an adjustable button and buttonhole which shall be readily attached to a desired article and hold the separate portions thereof securely together when buttoned, but which is also readily unbuttoned and detached, an adjustable button and buttonhole which shall not require a sewed buttonhole, an adjustable button and buttonhole which shall not tear out of the cloth to which it is attached, an adjustable button and buttonhole in which the use of pins for attachment is obviated, and an adjustable button and buttonhole capable of sustaining great and continuous wear. I accomplish these objects by the device illustrated in the accompanying drawings, in which similar letters are used to designate similar parts throughout.

Figure 1 is a central longitudinal section of my adjustable button and buttonhole, showing the disks C D and E G attached to respective portions of a garment A B, the disks C D being fitted over the spring-post F of the disks E G. Fig. 2 is a central longitudinal section of my adjustable button and buttonhole detached from a garment, the disks C D being partly over the spring-post F of the disks E G. Fig. 3 is a view of the upper side of the disk D and the spring-post F. Fig. 4 is a view of the upper side of the disk E and spring-post F.

My adjustable button and buttonhole, which is made of brass or other suitable material, is provided with disks C D and E G. The disk C has in its center, upon its upper side, a threaded shank C', the interior of the shank C' being smooth. The disk D has in its center a threaded boring adapted to engage with the thread of the shank C' of the disk C. The disk E has upon its upper side a post F, provided with a split or opening f. The post F is adapted to fit snugly the inte-

rior of the shank C' of the disk C, the head of the post F being of greater diameter than the lower portion of the post, but being adapted by compression of the split f to be inserted into the shank C', Fig. 2. Upon the under side of the disk E is a threaded projection e. The disk G has in its center a threaded boring adapted to engage with the projection e of the disk E.

The operation of my adjustable button and buttonhole is as follows: The disk D is unscrewed from the shank C' of the disk C. The disk G is unscrewed from the projection e of the disk E. A hole is made through the desired cloth A to receive the shank C' of the disk C, and the disk D screwed tightly over the shank C', so that the cloth A is compressed between the two disks C D, Fig. 1. A hole is made through the desired cloth B to receive the projection e of the disk E, and the disk G is screwed tightly over the projection e, so that the cloth B is compressed between the two disks E G, Fig. 1. It is thus seen that so much of the cloth A B is compressed between the surfaces of the disks C D and E G as to prevent the button and buttonhole from tearing out of the cloth to which it is attached. The spring-post F is inserted in the shank C' and pushed through the shank C', the spreading head of the spring-post thus holding the two portions of the adjustable button and buttonhole and the desired cloth firmly together, Fig. 1.

The slight concavity of the bottom of the disk C (shown in the drawings) is merely intended to act as somewhat of a guide for the spring-post F when it is inserted in the shank C' and is not essential to the construction.

The openings shown near the edges of the disks D G are for the insertion of a suitable key to screw the disk D upon the shank C' and the disk G upon the projection e and are not essential to the construction.

Having fully described my invention, what I claim, and desire to protect by Letters Patent, is—

The combination, with the disks D G, of the disk C, having shank C', and the disk E, having spring-post F, and projection e, substantially as described, and as and for the purposes set forth.

FREDERICK S. RUDGE.

Witnesses:

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