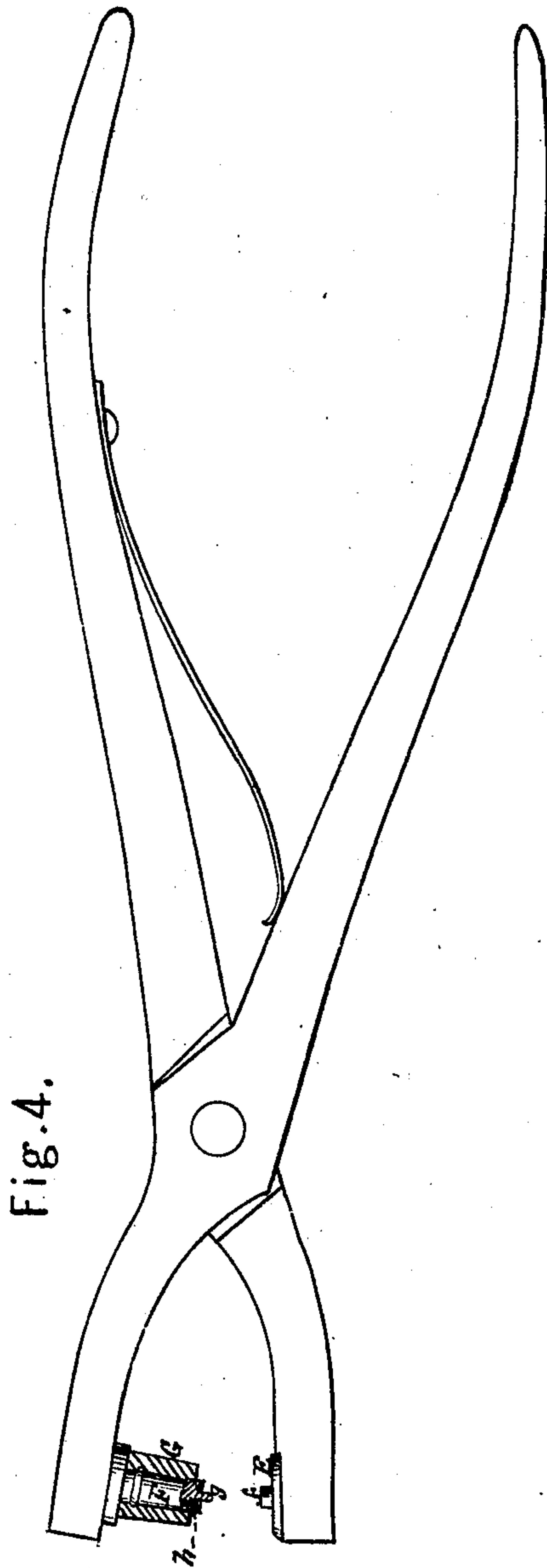
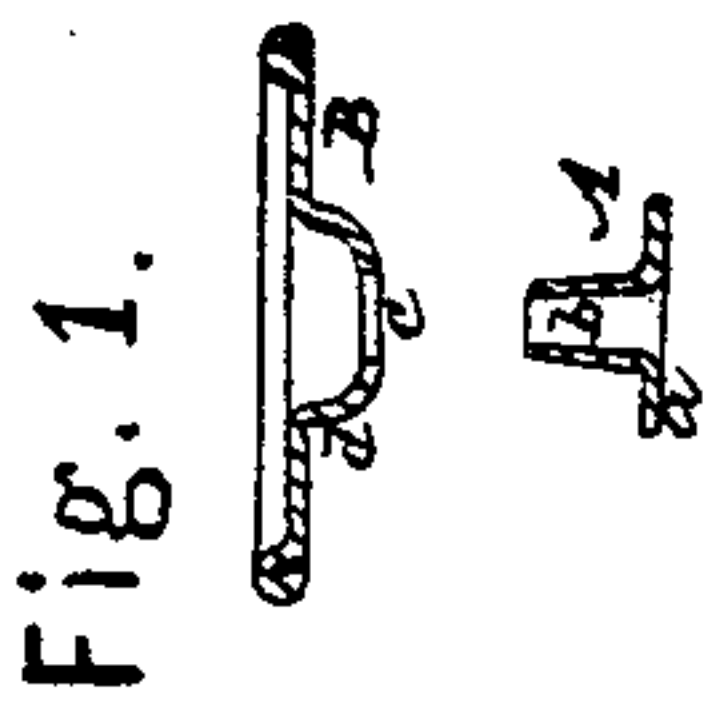
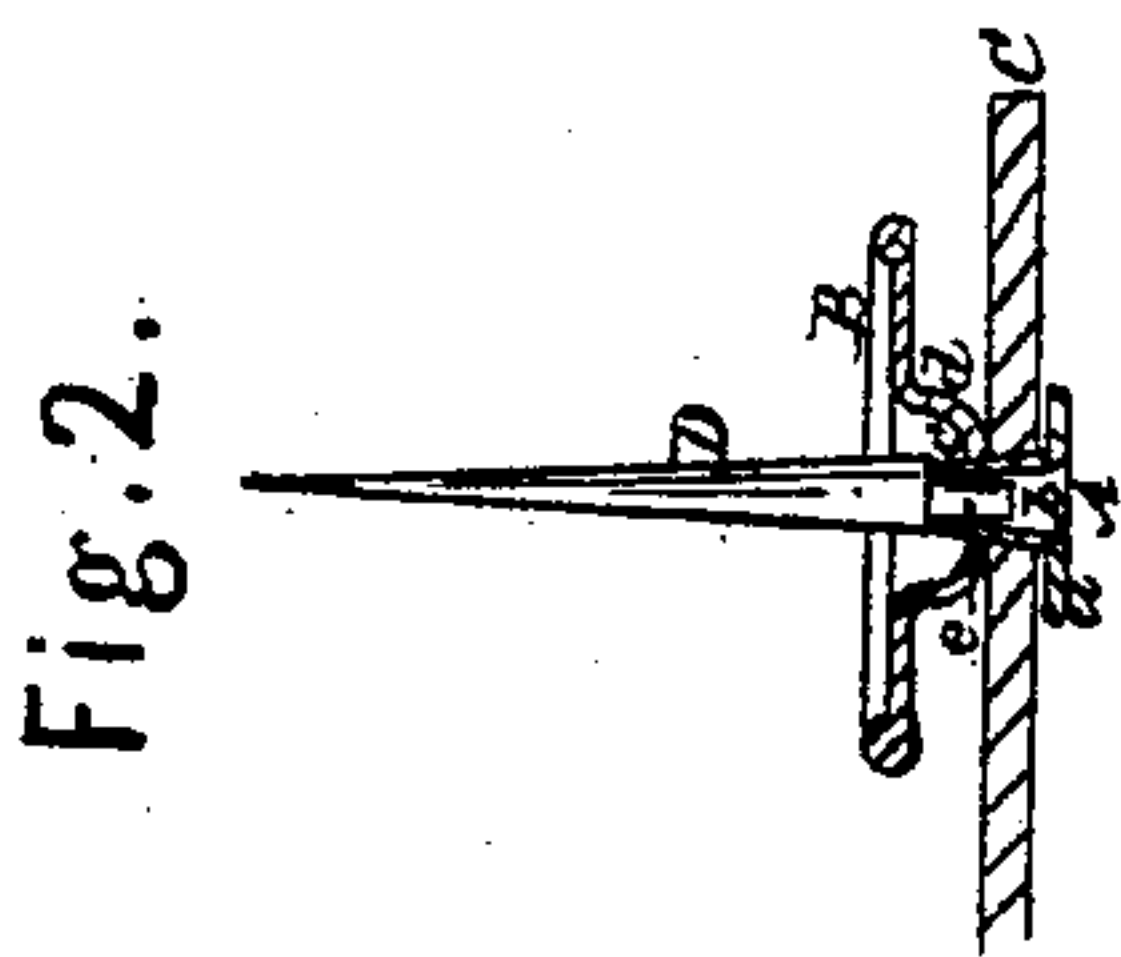
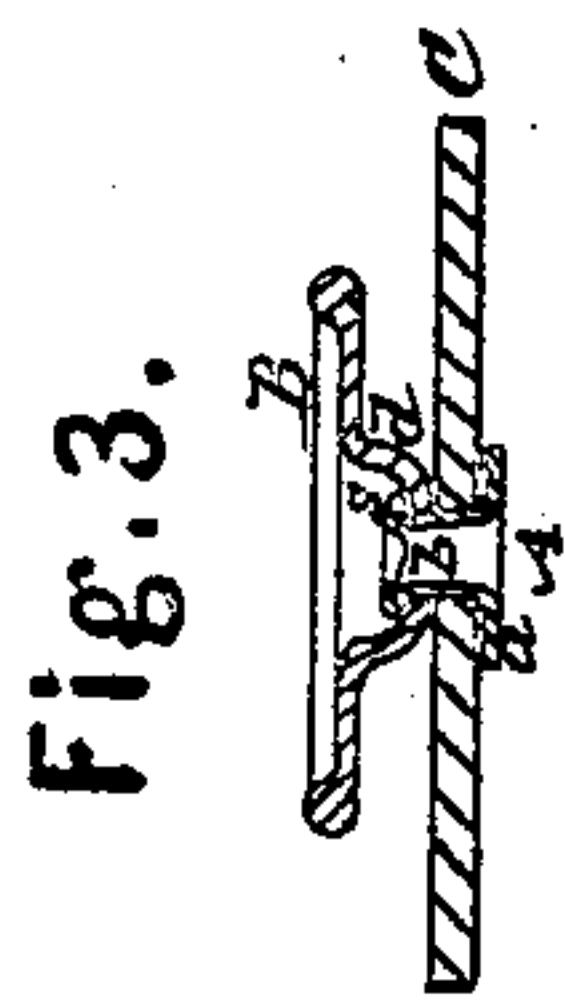
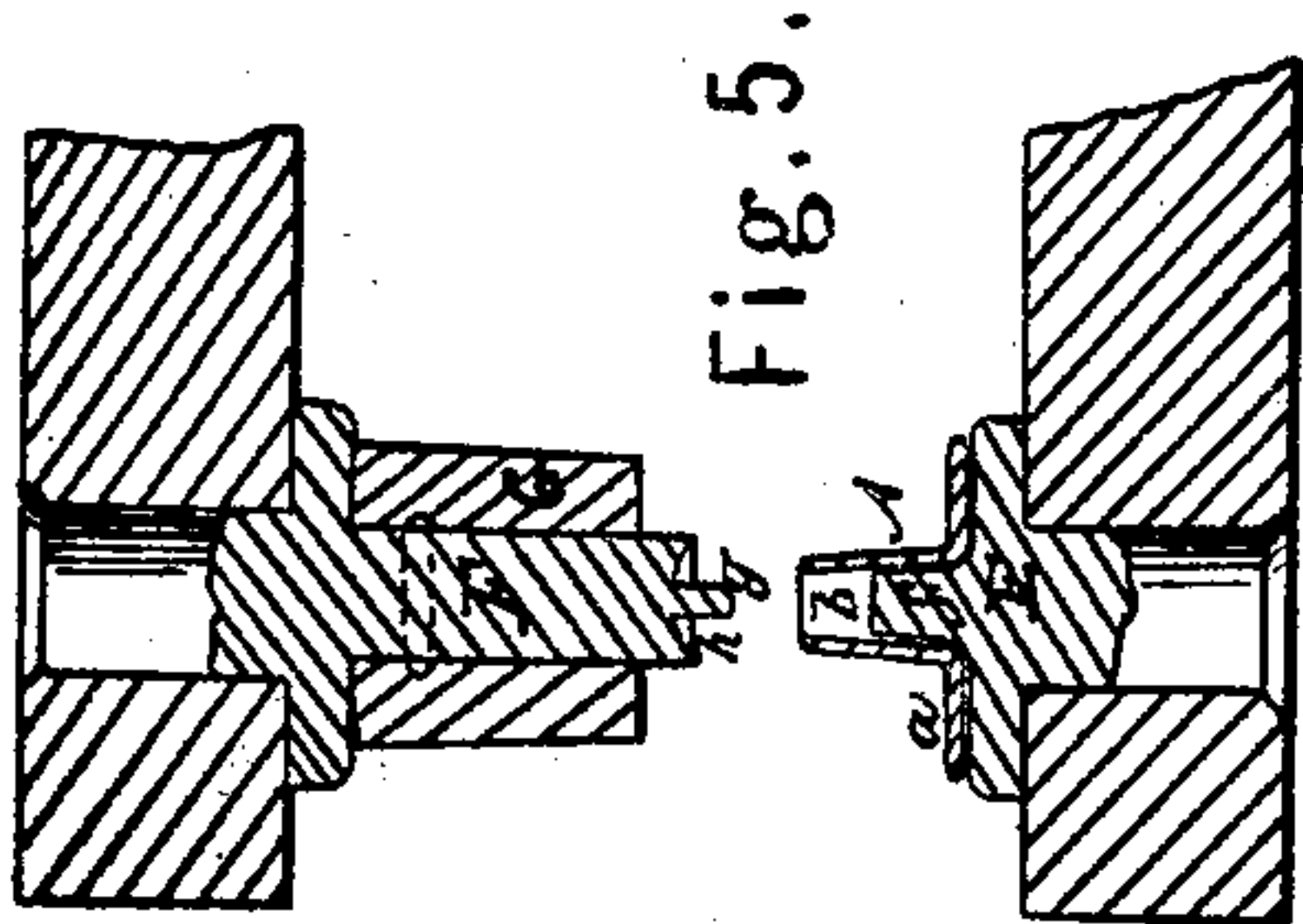


*D. McL. Somers.*

*Securing Buttons to Fabrics.*

*N<sup>o</sup> 95847.*

*Patented Oct. 12. 1869.*



Witnesses:

*McCormick*  
*Fred. Harnes*

Inventor:

*Daniel M. L. Somers*

# UNITED STATES PATENT OFFICE.

DANIEL McL. SOMERS, OF BROOKLYN, NEW YORK.

## IMPROVED DEVICE FOR SECURING BUTTONS TO FABRICS.

Specification forming part of Letters Patent No. 95,847, dated October 12, 1869.

*To all whom it may concern:*

Be it known that I, DANIEL McLEAN SOMERS, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Devices for Securing Buttons to Garments, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figures 1, 2, and 3 represent the button, with its means of attachment, and as secured to the fabric; Fig. 4, a longitudinal view of a tool constructed in accordance with my improvement for fastening on the button, as illustrated in Fig. 3; and Fig. 5, a sectional view, on a larger scale, of that portion of said tool by which the securing of the buttons is effected, with the fastening-stud in its place on the same.

Similar letters of reference indicate corresponding parts.

My improvement relates to that mode of fastening on buttons in which a stud formed with a head or flange and hollow nipple is made to bear or rest by its head on one side of the material, while its nipple, which is passed through the latter, is projected through an eye formed in a back swell or shank of the button on the opposite side of said material, and is afterward riveted or compressed over the front portion of the eye to hold the button to its place; and it consists in the arrangement of a rubber spring around the riveting-die, to bear down on the button and hold it against the cloth while it is being clinched to secure a close-riveted hold of the button on the cloth and prevent the nipple from being spread out between the latter and back of the button.

To secure the nipple *b* and button *B*, together with the fabric *C* intervening, I use a combination of dies, *E* and *F*, that may either be carried by a pinchers-like instrument, to facilitate their operation, as represented in the drawings, or may be operated in a press-like manner by giving to the one die a straight or vertical action relatively to the other. The one die *E* serves to receive and support on it the head *A* of the stud, and to center the latter by providing said die with a teat, *f*, over

which the back end of the cavity in or through the stud is fitted. The other die, *F*, is also provided with a centering-teat, *g*, of smaller size than the forward end of the hole in the nipple, and the face of said die constructed with a cup-like or bevel-shaped recess, *h*, in it around the teat *g*, which may project somewhat beyond the outer edge of the cup or recess.

From this description it will be seen that on applying suitable pressure to bring the dies *E* and *F* toward each other, the forward end of the nipple *b* is not simply clinched down or over the eye *c*, but by the cup *h* in the die *f* a solid compression is made on the body of the nipple, and its forward edge not drawn or turned outward, which weakens the nipple and is apt to split it; also, which forms but a single thin riveting-head, as it were, whereas the cup *h* turns the outer end or edge of the nipple inward, and establishes a riveting-head out of the body of the nipple in the shape of a collar, *s*, Fig. 3, having two thicknesses of metal or material, which largely contribute to stiffen the hold on the button.

Arranged around the die *F* is a rubber spring, *G*, which, as said die is brought down to clinch or rivet the nipple over the eye *c*, bears down on the button and holds it firm against the cloth. This secures a close-riveted attachment of the button to the cloth, and prevents any spreading out of the nipple during or by the pressure applied in riveting between the cloth and back of the button.

By the invention as herein described buttons may be secured in a very cheap, expeditious, and stable manner, with no liability of their drooping when in place.

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

The combination, with the riveting-die *F* and stud supporting and centering die *E*, of the rubber spring *G*, arranged around the exterior of the riveting-die for action on the button in concert with said die, essentially as herein set forth.

DANIEL McL. SOMERS.

Witnesses:

JOHN D. ROSSET,  
HENRY PALMER.