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G. K. SMITH

DETACHABLE SNAP BUTTON OR SPRING STUD

Filed Nov. 1, 1920

FIG. 1.

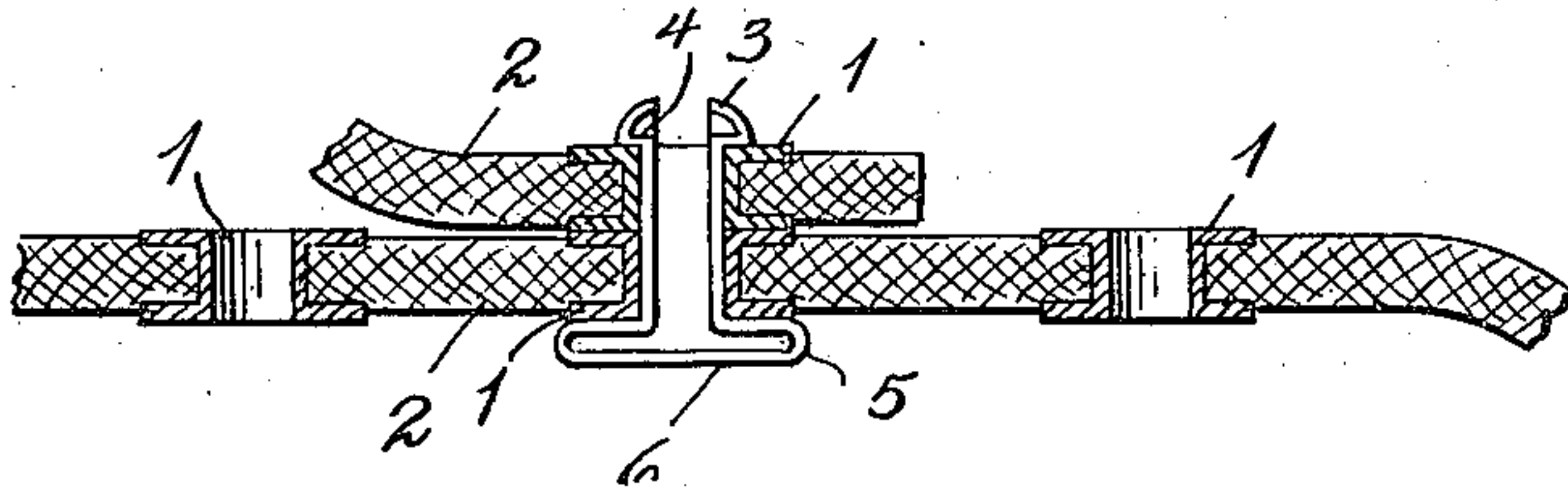


FIG. 2.

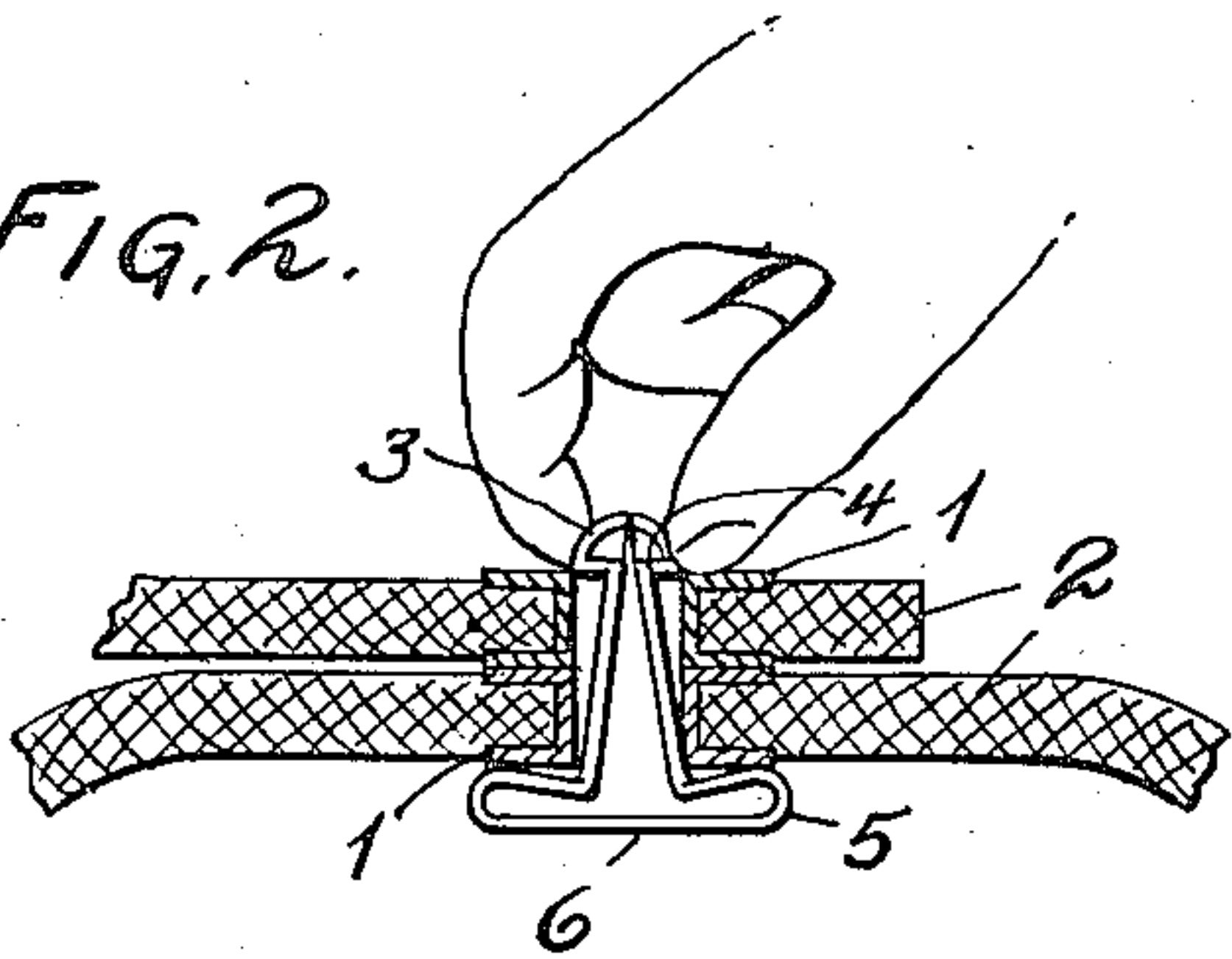


FIG. 3.

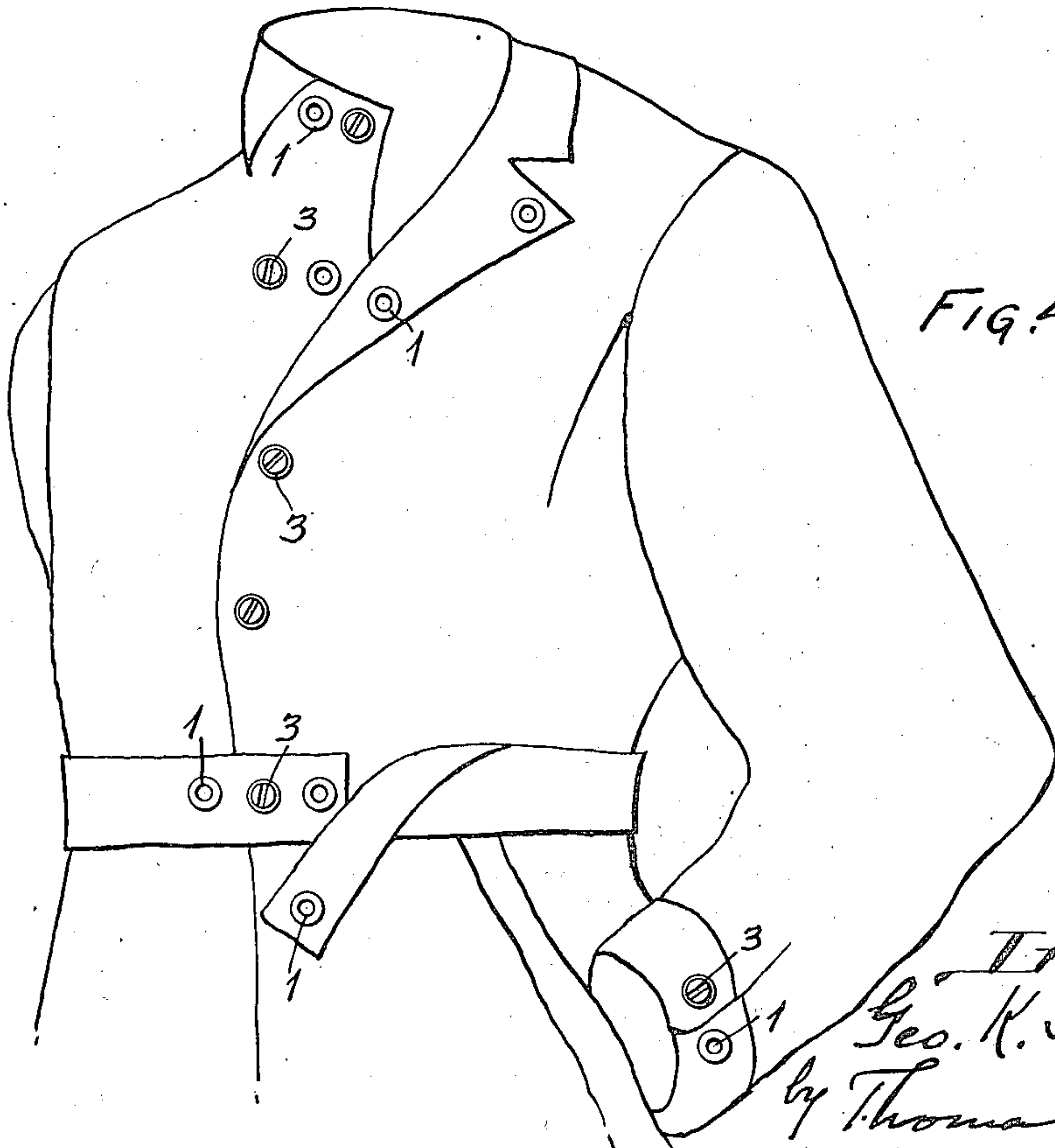
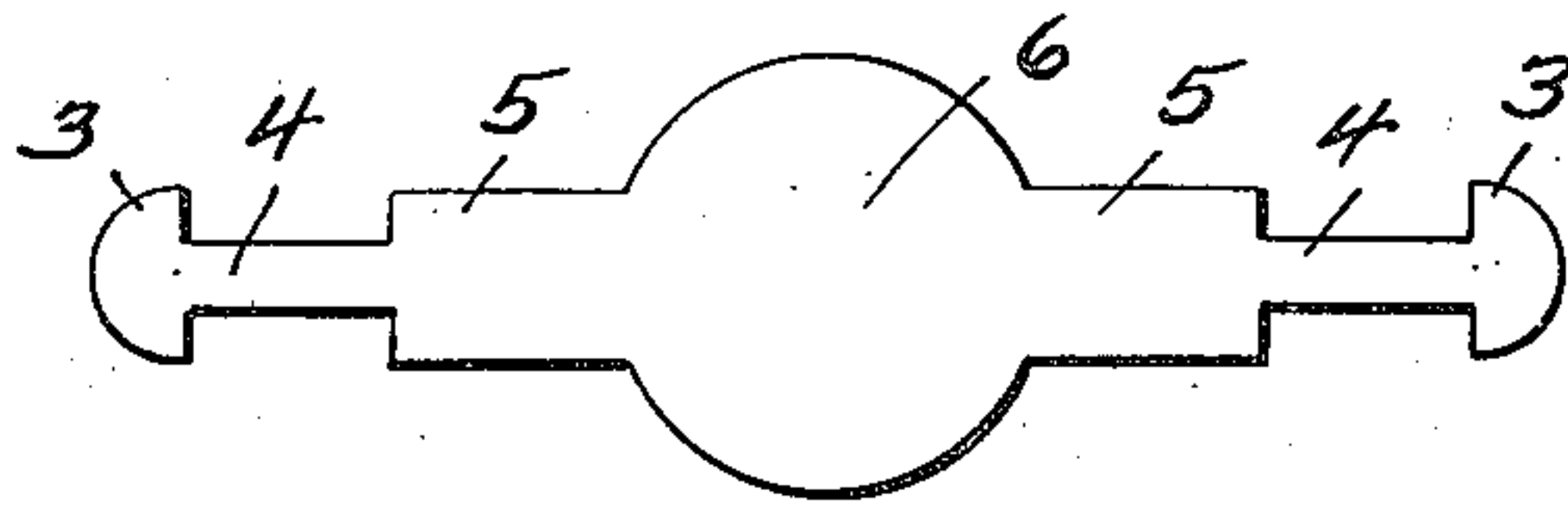


FIG. 4.

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# UNITED STATES PATENT OFFICE.

GEORGE K. SMITH, OF NEW YORK, N. Y.

DETACHABLE SNAP BUTTON OR SPRING STUD.

Application filed November 1, 1920. Serial No. 421,199.

*To all whom it may concern:*

Be it known that I, GEORGE K. SMITH, citizen of the United States, and resident of 2744 E. Tremont Ave., New York, N. Y., in the county of Bronx and State of New York, have invented certain new and useful Improvements in Detachable Snap Buttons or Spring Studs, of which the following is a specification.

10 This invention relates to improvements in detachable snap buttons or spring studs and one of the objects of the invention is to provide a simple and efficient article of this kind for detachably securing overlapping  
15 flaps of garments, and for similar uses.

Another object of the invention is to provide fastening means separable from the garment or other article to facilitate laundering.

20 A still further object of the invention is to provide fastening means which may be readily used to fasten the flaps in any one of a number of relative positions, and which may be readily released to permit adjustment  
25 thereof to another position.

Other objects of the invention and features of novelty will be apparent from the following specification when taken together with the accompanying drawings, in which:

30 Figure 1 is a vertical section through the flaps of a garment showing one embodiment of my invention in place therein.

Fig. 2 is a sectional view similar to Fig. 1 showing the manner in which the button  
35 is released.

Fig. 3 is a plan view of the blank from which the button is made before the same is bent; and

40 Fig. 4 is a view in elevation of a coat showing the manner in which the buttons are used to permit ready adjustment.

As shown in Figs. 1 and 2, eyelets 1 are fastened in the flaps 2, which it is desired to secure together, a single eyelet being fixed in  
45 one flap while a number of eyelets are positioned as desired in the other flap. It will be evident from Fig. 4 that the garment may be adjusted so that any one of the eyelets in the one flap registers with the single  
50 eyelet in the other, and the flaps are then secured together by passing the removable button through the registering eyelets.

The button is formed from a blank of the shape shown in Fig. 3, which may be con-

veniently made by a stamping operation, and  
55 comprises a base portion 6 having oppositely extending portions 5 to which enlarged heads 3 are connected by neck portions 4. The enlarged head portions 3 are cupped to form convex head portions and the portions  
60 5 are folded back upon the base portion 6 as shown in Figs. 1 and 2, the neck portions 4 being also bent relative to the folded back portions 5 to form a stud projecting up-  
65 wardly from the base 6. It will be apparent that when the blank has been bent to the shape shown in Figs. 1 and 2, the enlarged cupped head portions 3 form a practically hemispherical head connected by the neck  
70 portions 4 to the base, the portions 3 being of such size that they may be squeezed toward each other in the manner indicated in Fig. 2 to permit them to be drawn through the eyelets 1.

Since the heads 3 are rounded they will be  
75 forced together when they are positioned in an eyelet and the button is forced in an axial direction, the resilience of the metal causing the head portions to snap apart after they  
80 have passed through the eyelet.

It will be evident that the structure and operation of the device are simple as is also its use, and that the buttons may be readily removed, leaving no projections which will interfere with laundering, and that the use  
85 of the eyelets will prevent fraying or raveling of the material. It will be seen that in unfastening two pieces of fabric from each other the post or stud will simply be un-  
90 snapped from one of the eyelets, the device being held in the other eyelet so that it will not become lost. When it is desired to remove the stud, however, when the garment is to be laundered or at other times, the stud can be snapped out of this second eyelet and  
95 detached entirely.

It will be understood that the invention herein described may be used on articles other than garments and that various changes may be made in details of construction without departing from the spirit of the invention which is defined in the ap-  
100 pended claims.

Having thus described my invention, what is claimed is:

1. A fastening device for overlapping flaps comprising eyelets secured to said flaps and a removable stud having an enlarged



base, reduced neck portions and enlarged cupped head portions, said head and neck portions being laterally resilient to permit entry of the head portions through the eye-  
5 lets.

2. A snap fastening device comprising in combination a plurality of eyelets and a fastening device having a base, a neck and a head, said head and at least one of said eye-  
10 lets cooperating resiliently to produce a snap action as the head is passed through the eyelet whereby the fastening device may be snapped into and out of position to secure the eyelets together.

15 3. The combination with sheets of material, of means for securing the sheets together comprising an eyelet secured in each of said sheets and a member separate from both of said eyelets having a base portion,  
20 a neck portion and a head, said head being adapted to pass through both of said eyelets and said head and at least one of said eyelets being adapted to cooperate resiliently

whereby said head and the last mentioned eyelet are adapted to form a snap fastening  
25 to secure said sheets together.

4. The combination with sheets of material, of means for securing the sheets together comprising an eyelet secured in each  
30 of said sheets and a member separate from both of said eyelets having a base portion, a neck portion and a head, said head being adapted to pass through both of said eyelets and to have a resilient snap action with each  
35 one of them, whereby the member is adapted to snap through both of said eyelets to secure said sheets together and remain snapped in one eyelet when the sheets are detached to prevent loss of said member.

Signed at 2754 East Tremont Avenue in  
40 the county of Bronx and State of New York this 26th day of October A. D. 1920.

GEORGE K. SMITH.

Witnesses:

JAMES J. FOY,  
DANIEL HEARNE.