

(No Model.)

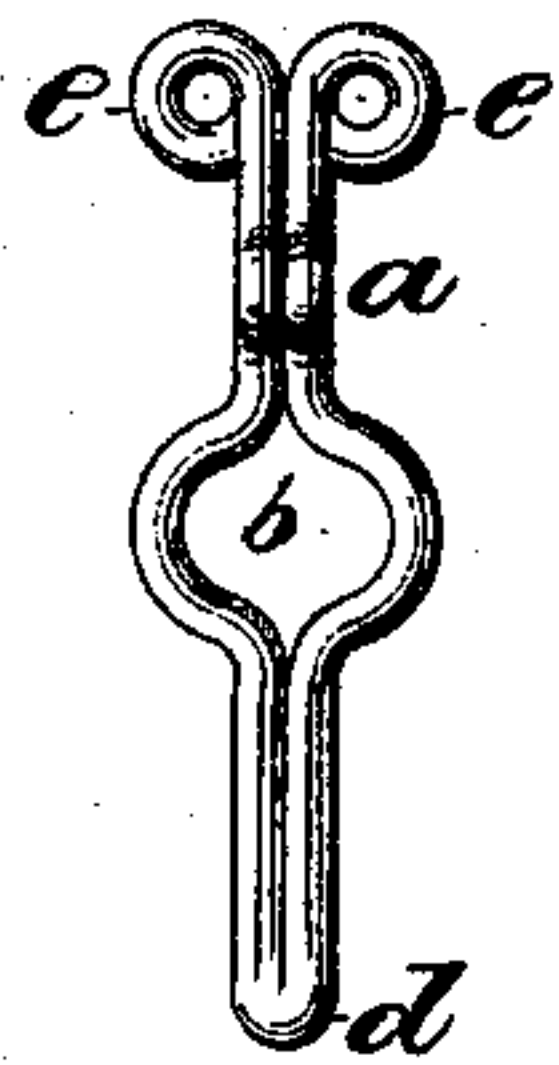
J. C. NEWHEY.

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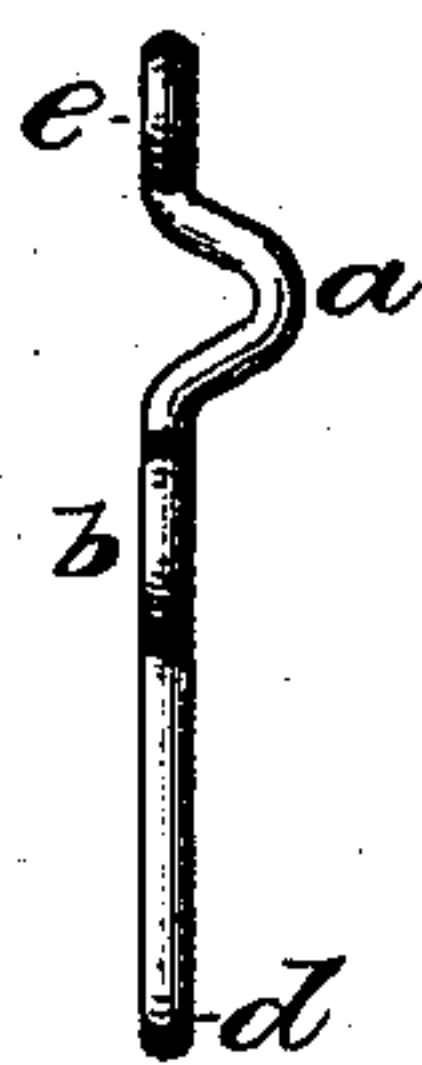
No. 393,656.

Patented Nov. 27, 1888.

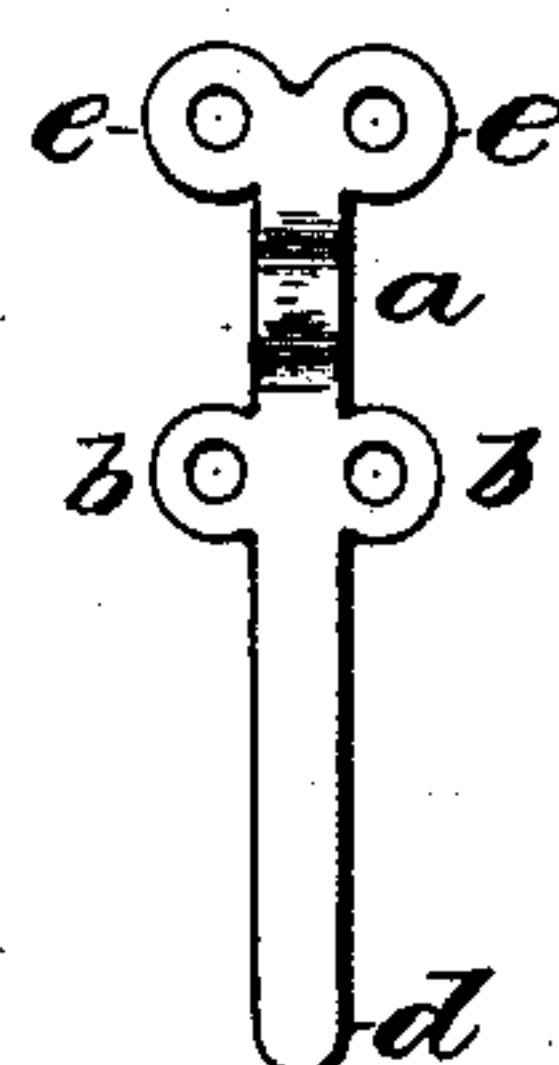
*Fig. 1.*



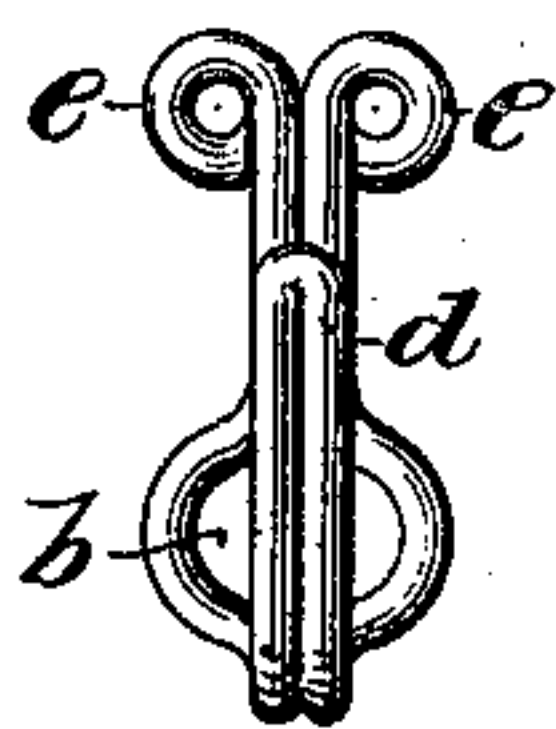
*Fig. 2.*



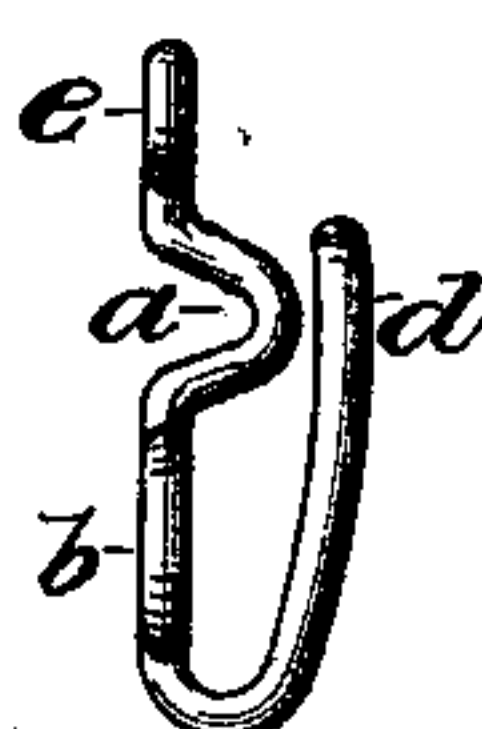
*Fig. 3.*



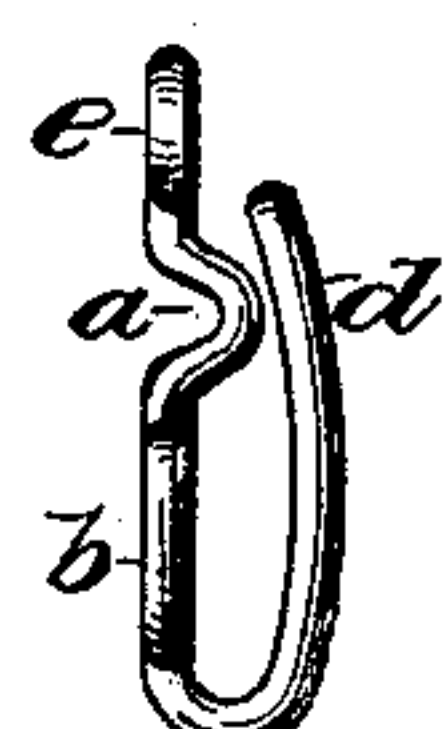
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



*Witnesses.*  
*Robert G. Pratt,*  
*Geo. W. Rea.*

*Inventor.*  
*James C. Newhey.*  
*By*  
*James L. Norris.*  
*Atty.*

# UNITED STATES PATENT OFFICE.

JAMES CLEMENT NEWHEY, OF BIRMINGHAM, COUNTY OF WARWICK,  
ENGLAND.

## HOOK.

SPECIFICATION forming part of Letters Patent No. 393,656, dated November 27, 1888.

Application filed May 17, 1888. Serial No. 274,212. (No model.) Patented in England February 27, 1888, No. 2,908.

*To all whom it may concern:*

Be it known that I, JAMES CLEMENT NEWHEY, hook-and-eye manufacturer, a subject of the Queen of Great Britain, residing at Brearley street, Birmingham, in the county of Warwick, England, have invented certain new and useful Improvements in Hooks, (for which I have obtained a patent in Great Britain, No. 2,908, bearing date February 27, 1888,) of which the following is a specification.

This invention has for its object to improve that type of hooks which are provided with a projection under the spring-bill to prevent the accidental disengagement of the usual eye from the hook.

The invention consists in the novel construction of the hook, as hereinafter described and claimed, whereby the hook is prevented from twisting or moving about laterally by the pressure necessary in forcing the eye over the projection under the spring-bill in engaging the eye with and disengaging it from the hook.

In the accompanying drawings, illustrating the invention, Figure 1 is a plan view of the device prior to bending around the end to form the spring-bill; Fig. 2, an edge view of the same; Fig. 3, a view similar to Fig. 1, showing a modification. Figs. 4, 5, and 6 are views showing the hook completed.

In the drawings it will be seen that the hook comprises an elastic or spring bill, *d*, and a base or body formed with the eyes *e* and *b*, which are located, respectively, at opposite sides of the bent portion constituting the forwardly - extending projection *a*, so that the body of the hook can be sewed to a garment at different points above and below or at each side of the projection *a*, thereby firmly securing the hook in position. The hook is sewed to the article by a needle and thread, the thread passing through the thread-eyes *e* and *b*, thus locating the bent projection *a* under the spring-bill *d*, between the opposite points where the hook is sewed in place. The projection *a* prevents the accidental disengagement of the usual eye after the latter has been hooked into engagement with the bill of the hook. The elastic bill *d* acts as a spring and prevents the usual eye from passing the pro-

jection *a* without a reasonable amount of force to press the bill outward.

In Figs. 1, 2, 4, 5, and 6 the hook is made of a single piece of wire bent into shape to form the spring-bill *d*, bent projection *a* under the bill, and the thread-eyes *e* and *b* above and below or rather at opposite sides of the projection.

In Fig. 3 the hook is shown as stamped from sheet metal and bent into shape.

The bent projection *a*, arranged under and in connection with the spring-bill, is very desirable in hook-and-eye attachments for garments; but as such projection has heretofore been arranged in relation to the sewing-eyes it is objectionable in that the spring-hook twists laterally about and becomes loose, especially on account of the presence of the desirable projection *a*, which renders it necessary to use considerable force or pressure in engaging the hook with and disengaging it from the eye.

By my peculiar arrangement of the projection *a* in the specified relation to the sewing-eyes and spring-bill the hook is so firmly attached both above and below or at opposite sides of the projection that the spring-hook cannot twist about laterally and thereby become loose, notwithstanding the pressure which is necessary to force the usual eye over the projection.

I am aware of Letters Patent Nos. 2,978 and 45,411, and do not wish to be understood as broadly claiming what is shown by either one of said patents.

Having thus described my invention, what I claim is—

As an improved article of manufacture, the hook formed with a spring-bill, *d*, and the outwardly-bent projection *a* under said bill, and provided with thread-eyes *e* and *b*, located, respectively, at opposite sides of said outwardly-bent projection, substantially as described.

JAMES CLEMENT NEWHEY.

Witnesses:

W. H. HARRIS,  
*Notary Public, Birmingham.*

ARTHUR T. CARR,  
*Solicitor, Birmingham.*