

J. E. WIGHTMAN.  
Snap-Hook.

No. 224,856.

Patented Feb. 24, 1880.

Fig. 1.

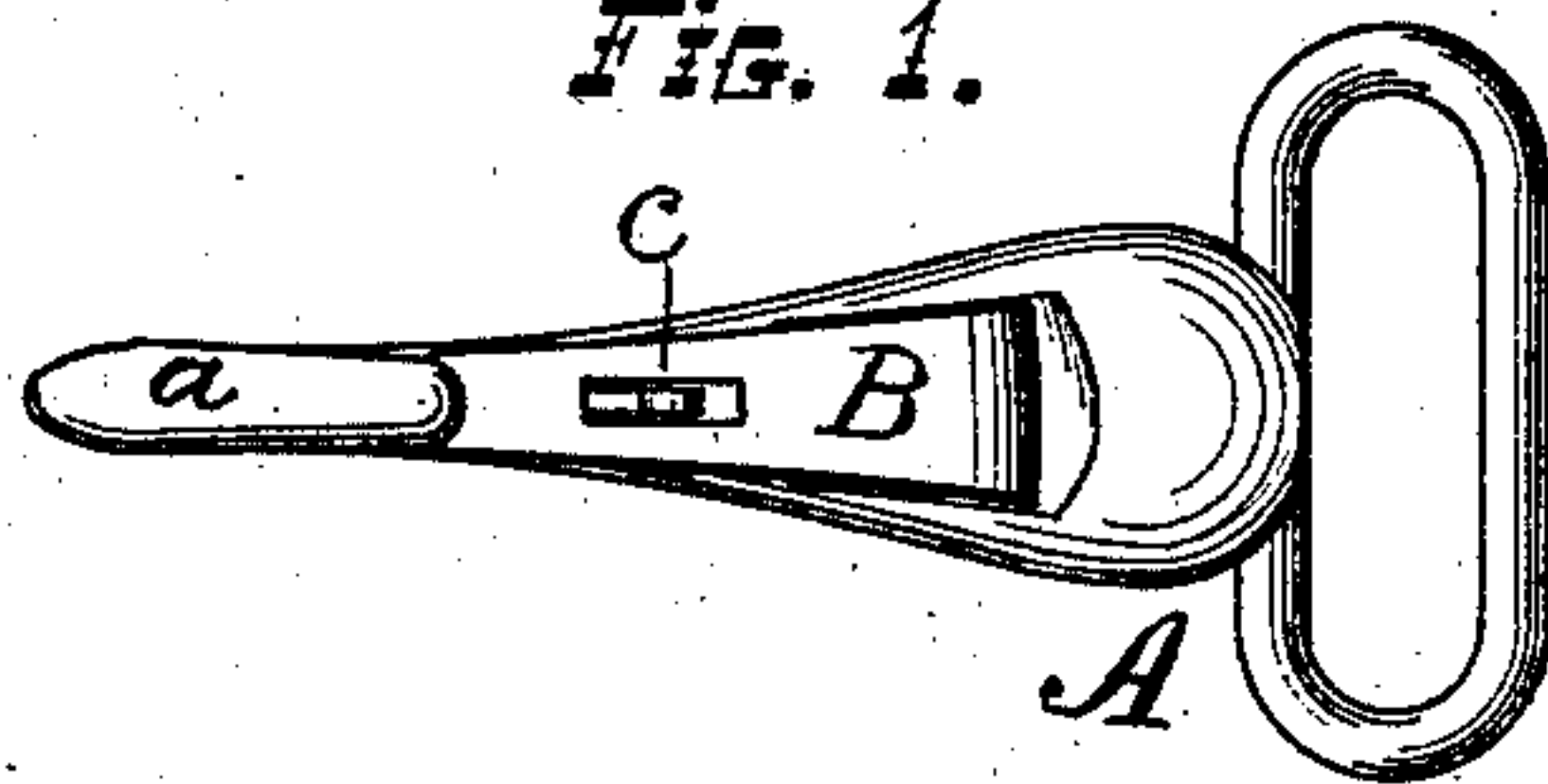


Fig. 2.

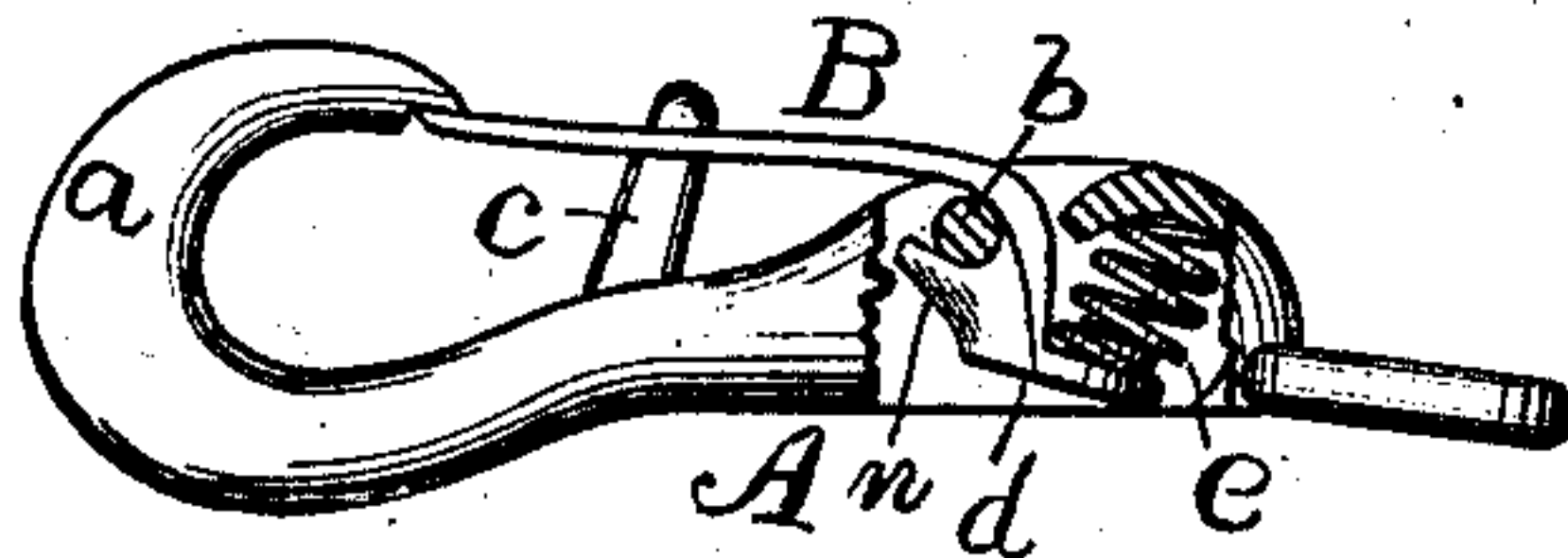


Fig. 3.

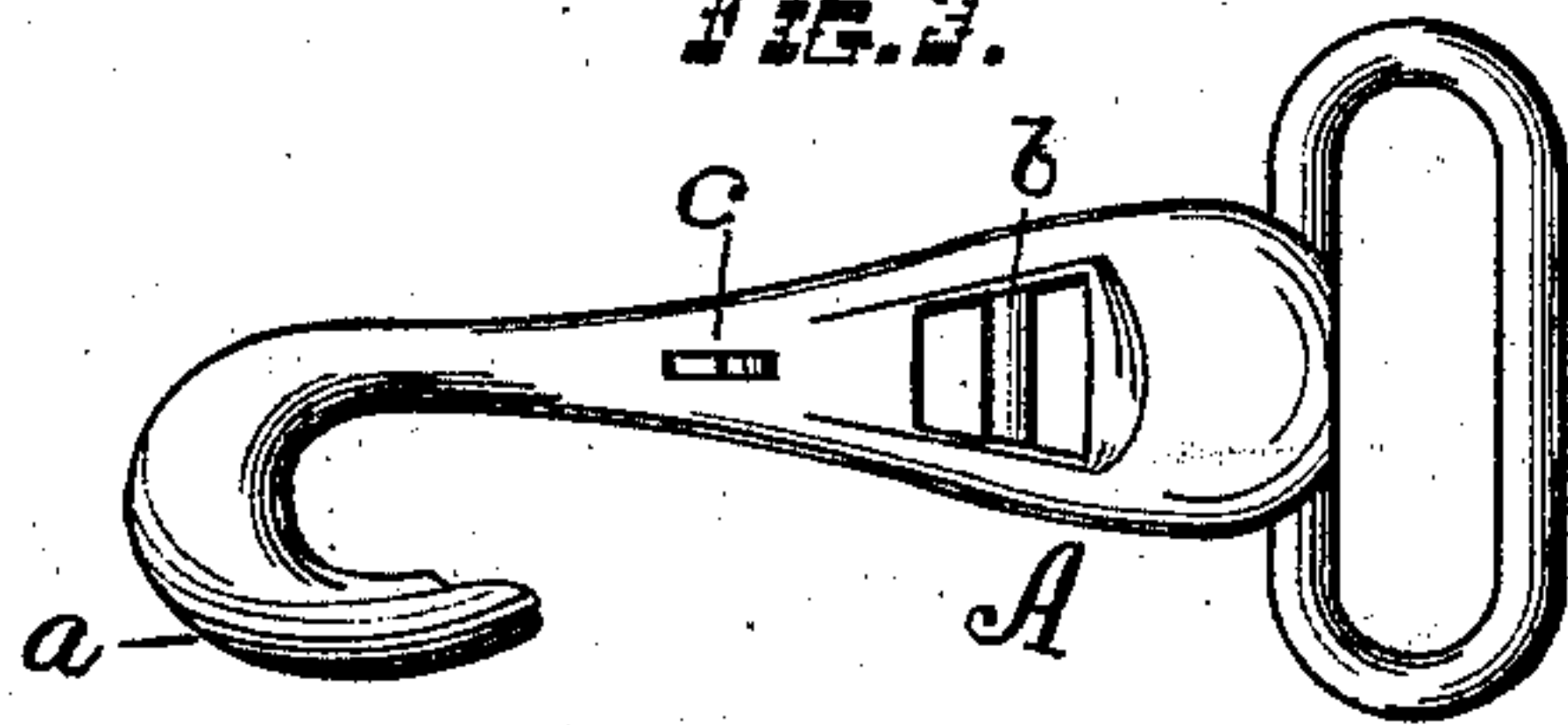
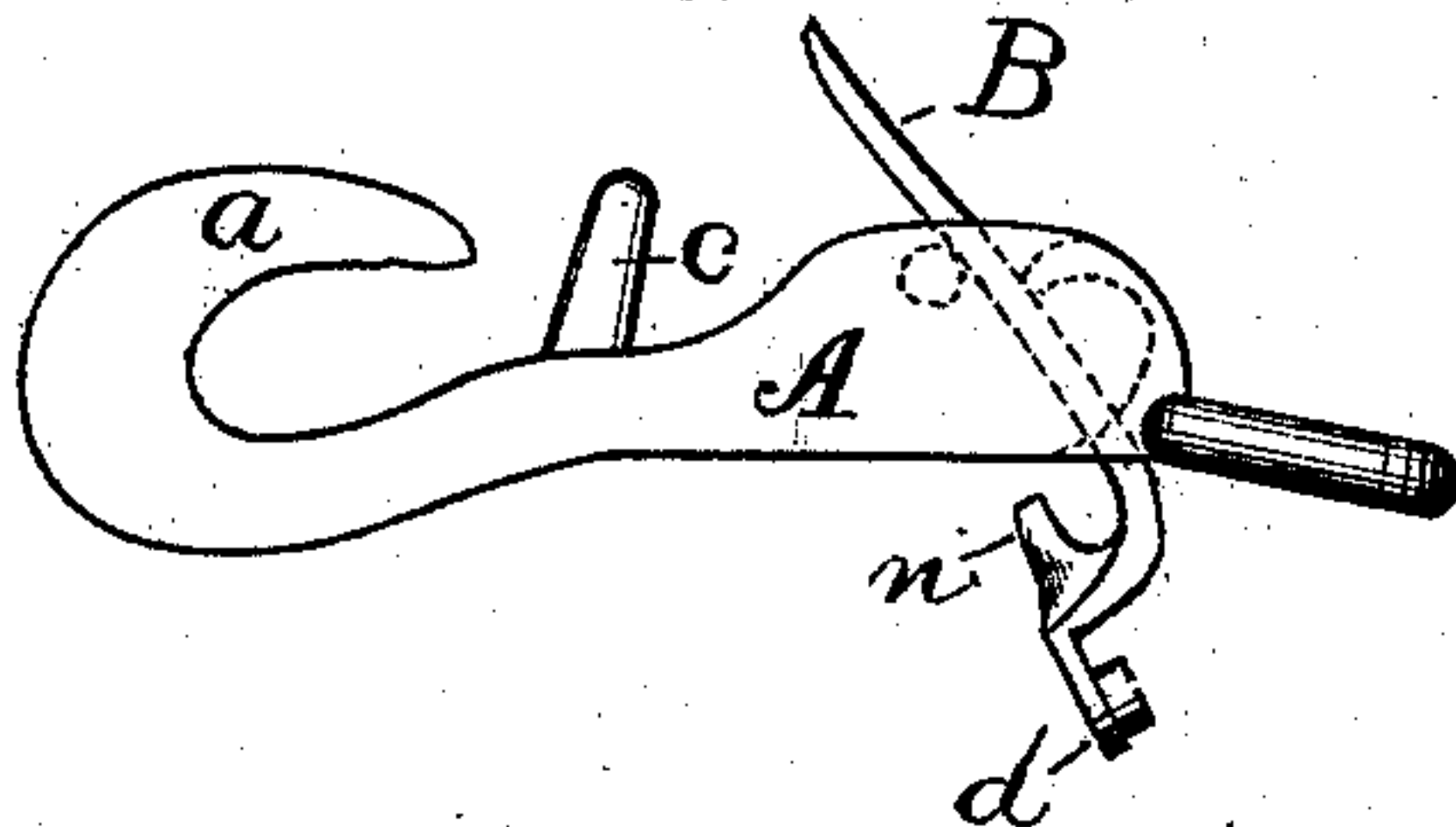


Fig. 4.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

JOHN E. WIGHTMAN, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO NORTH  
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## SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 224,856, dated February 24, 1880.

Application filed December 18, 1879.

*To all whom it may concern :*

Be it known that I, JOHN E. WIGHTMAN, of New Britain, in the county of Hartford, in the State of Connecticut, have invented certain new and useful Improvements in Snap-Hooks, of which the following is a specification.

My invention relates to the rigid post on the body of the snap-hook which passes through the tongue, and to the combination of said post with the other parts.

In the accompanying drawings, Figure 1 is a front elevation of a snap-hook which embodies my invention. Fig. 2 is a side elevation of the same, partly in section. Fig. 3 is a front elevation of the body of the snap-hook without the tongue, and with the end of the hook proper turned to one side in the position in which it was cast, and Fig. 4 is a side elevation of the same, together with the tongue, represented as being inserted in place.

A designates the body of the hook; *a*, the hook proper formed thereon. The body of the hook is cast with a spring-receiving recess upon its under side, as shown in Fig. 2, and with an opening extending through the body for the insertion of the tongue, as shown in Fig. 3. Transversely to this opening, and in one and the same piece with the body of the snap, is an axle-pin, *b*, and in front of this opening is a rigid post, *c*.

The body of the tongue *B* is offset or crooked near its rear end, as shown in Figs. 2 and 4, back of which offset there is a pad, *d*, which furnishes a seat for the spiral spring *e*. Upon the front of this offset is a small arm, *n*, which, with the body of the tongue, forms a recess to receive the axle-pin *b*. The tongue also has an opening between its two ends, into which the rigid arm *c* fits when the tongue is in place.

As in ordinary snap-hooks, the hook proper, *a*, is cast when turned to one side, as shown in Figs. 3 and 4. After the castings are obtained the tongue is inserted through the opening in the body of the snap-hook, as shown in Fig.

4, and carried endwise until the axle-pin is received in the recess formed by the arm *n*. The spiral spring is then, or at any time previous, inserted within the spring-receiving recess and seated upon the pad *d*, when the tongue is turned forward, so that the post enters the opening in it and the tongue rests upon the body of the snap-hook. The hook proper is then straightened up into its proper position, as shown in Figs. 1 and 2, so as to act upon the tongue and prevent it from being turned backward and withdrawn, thereby completely and efficiently securing the parts in place without any riveting whatever.

The rigid post *c* prevents the tongue from being wrenched sidewise, and thereby firmly supports said tongue. It also prevents a ring which is received by the snap-hook from being crowded so far up under the tongue as to obtain a wedging effect, which would have a tendency to pry or bend the tongue out of place.

I am aware that a prior patent shows a snap-hook with the axle-pin extending across a recess in the body of the snap-hook, and with a tongue having an offset body and axle-pin-receiving recess, back of which recess was a spring-pad and spring, and I hereby disclaim the same.

I claim as my invention—

1. The combination of the body of the snap-hook having a rigid axle-pin, the tongue *B*, having an axle-pin-receiving recess, open upon its front side, and the rigid post *c*, formed on the body of the hook and passing through the tongue, substantially as described, and for the purpose specified.

2. In a snap-hook, the rigid post *c*, formed on the body of the hook, in combination with the tongue having an opening which receives said post, substantially as described, and for the purpose specified.

JOHN E. WIGHTMAN.

Witnesses:

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L. M. WILCOX.