

(No Model.)

A. A. PAGE.
SNAP HOOK.

No. 504,538.

Patented Sept. 5, 1893.

Fig. 3

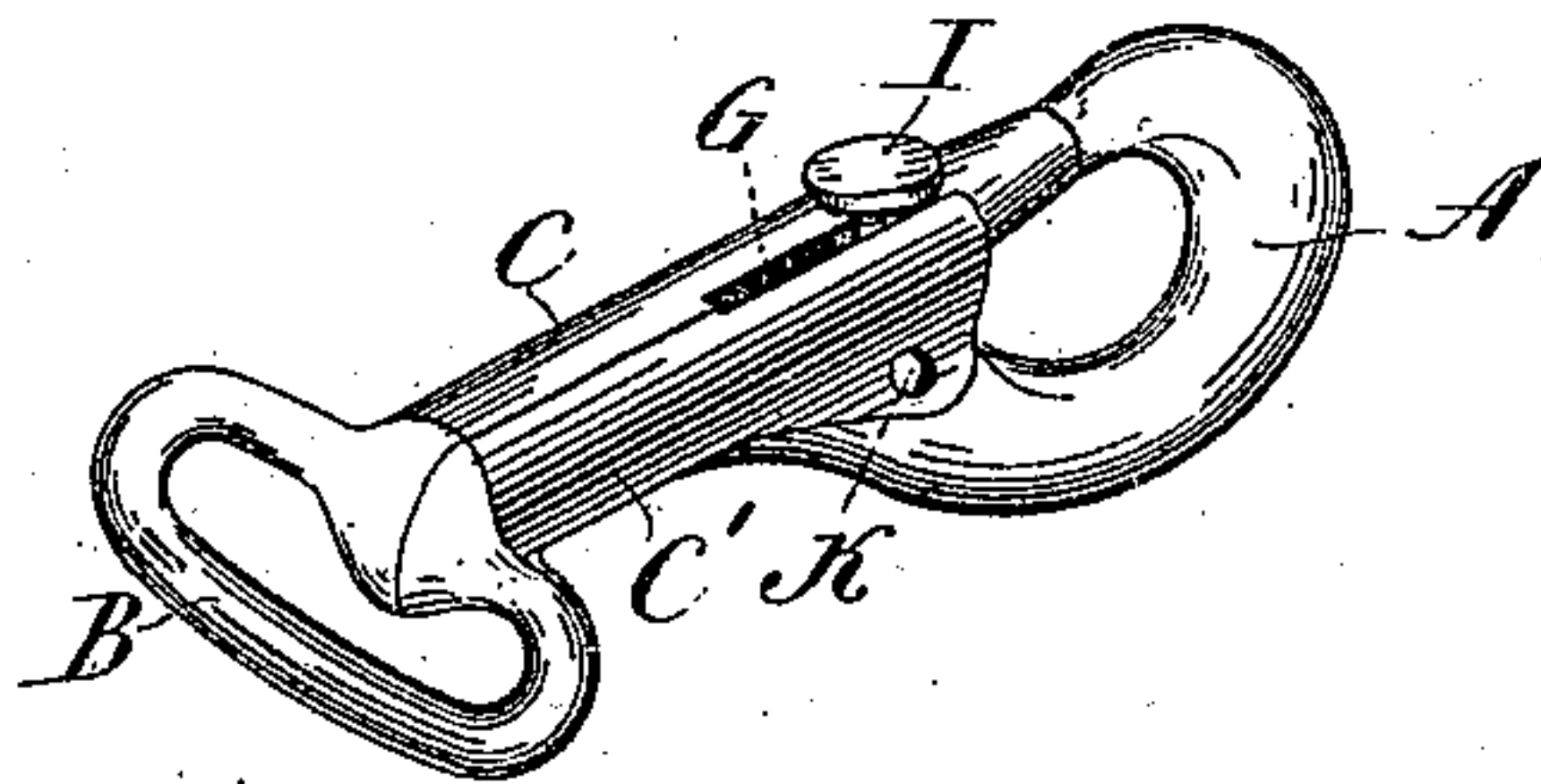


Fig. 1

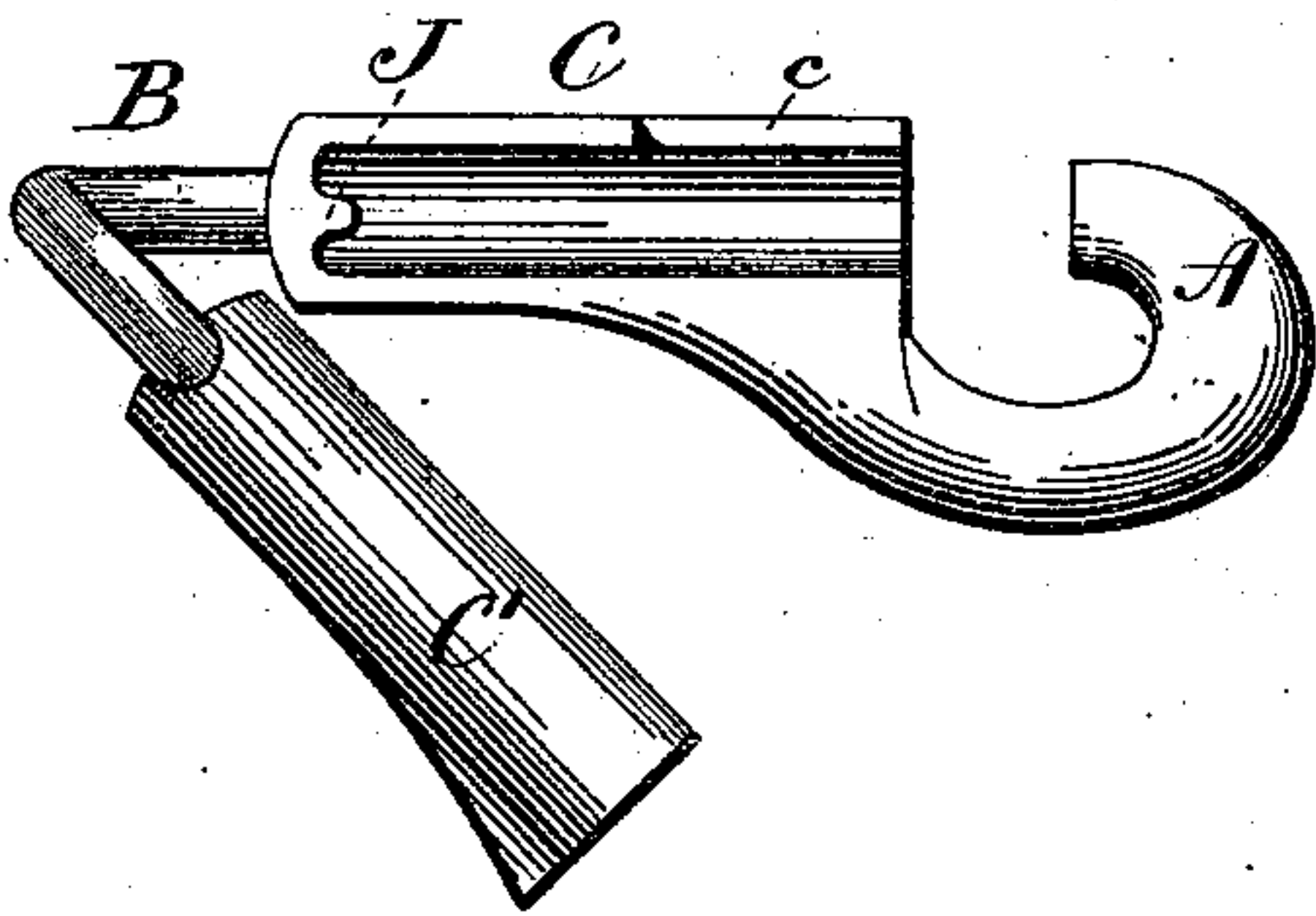


Fig. 2.

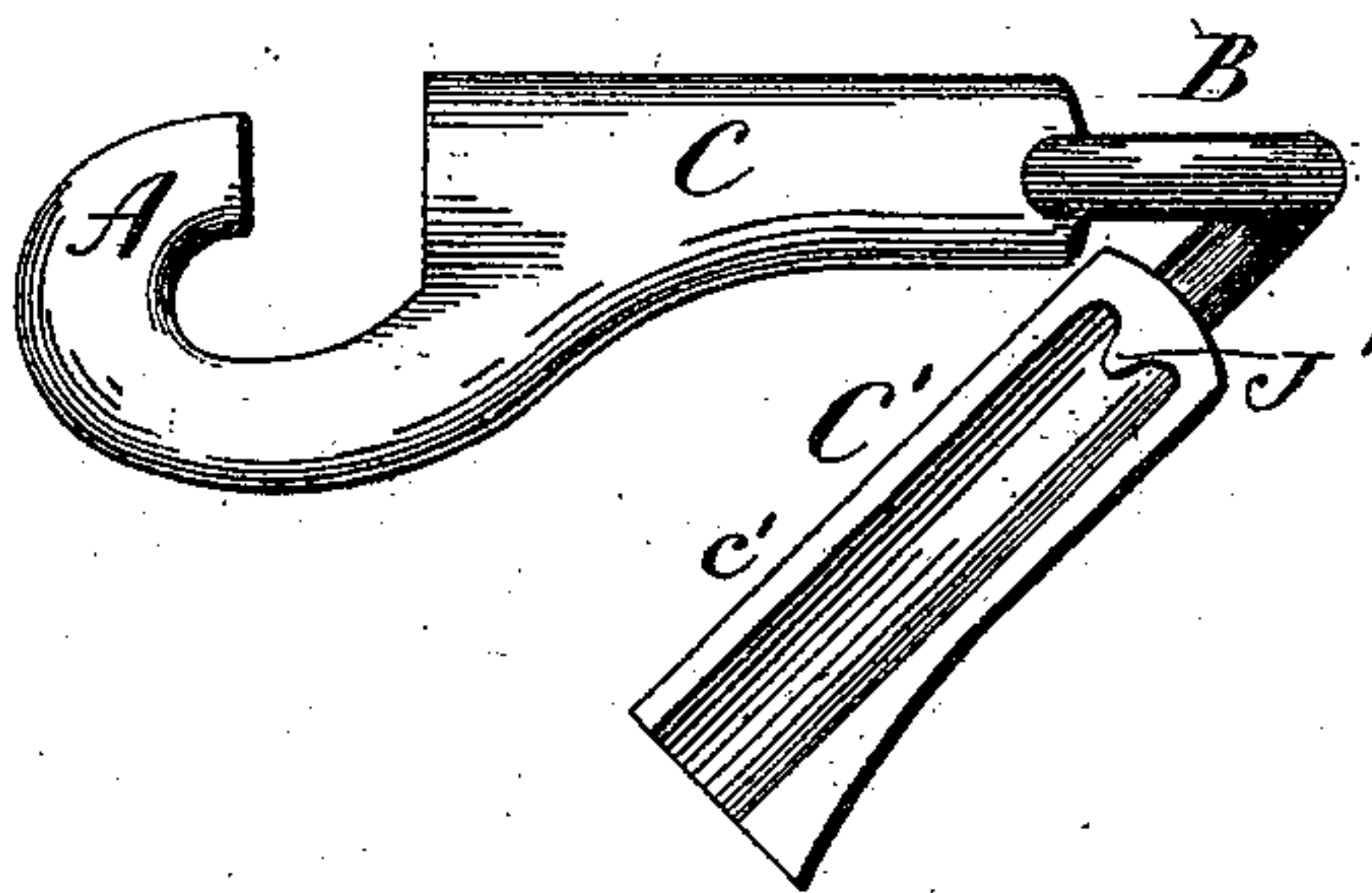


Fig. 4

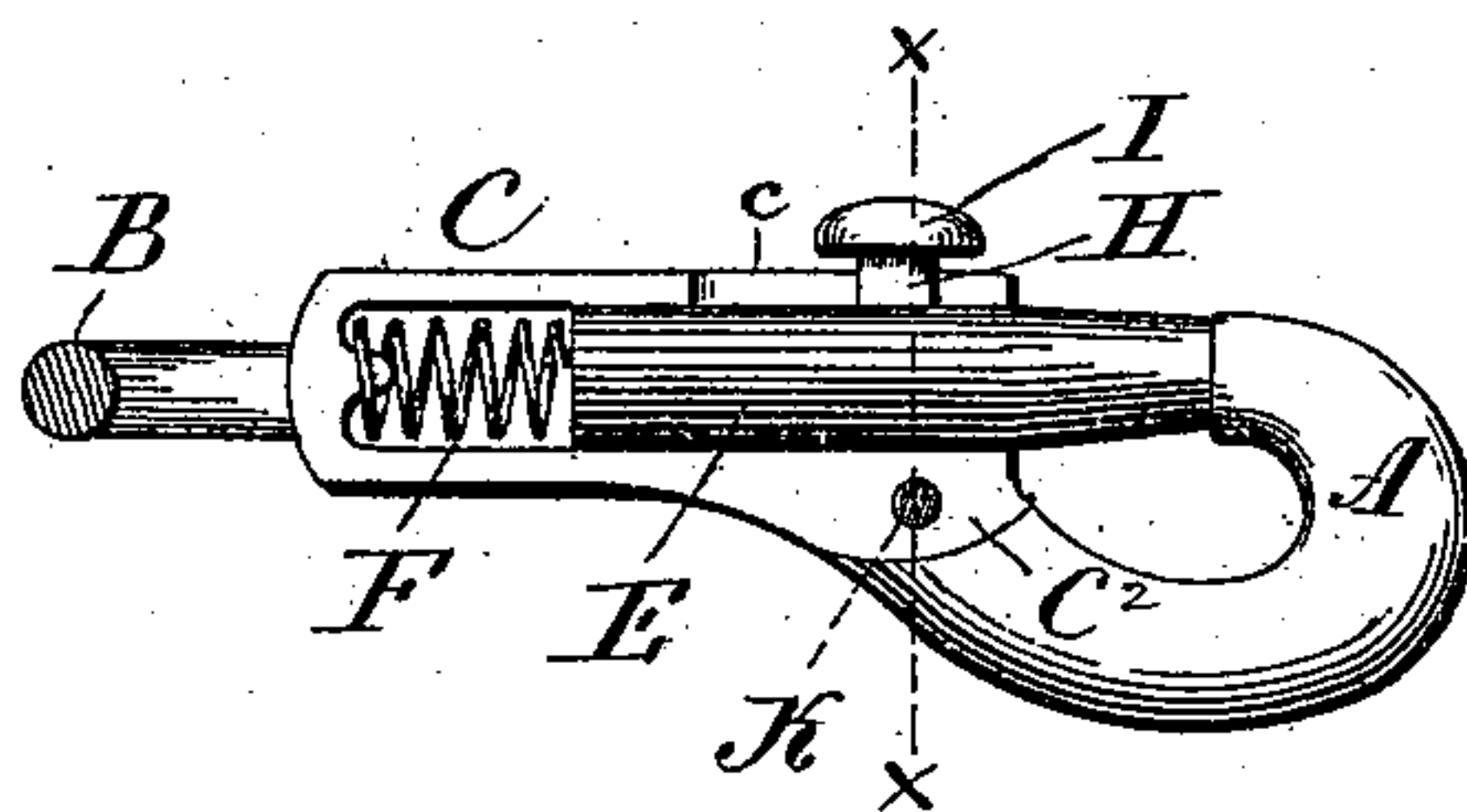
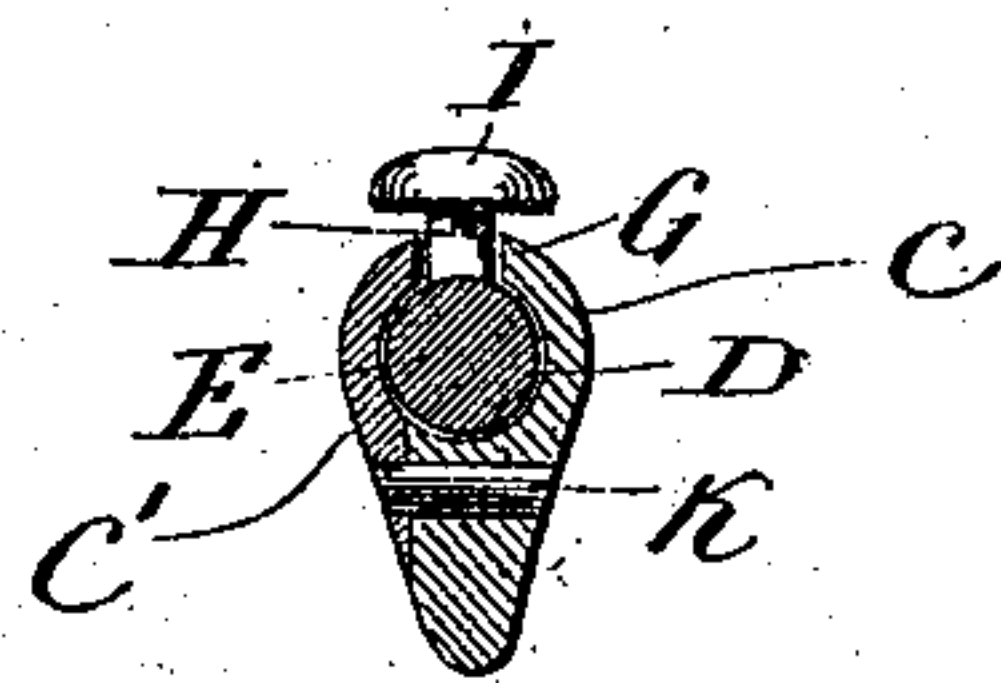


Fig. 5



Witnesses

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UNITED STATES PATENT OFFICE.

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SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 504,538, dated September 5, 1893.

Application filed December 5, 1892. Serial No. 454,030. (No model.)

To all whom it may concern:

Be it known that I, ALBERT A. PAGE, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Snap-Hooks, (Case A;) and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in side elevation of the integrally cast body, hook and eye of my improved snap-hook, as it comes from the mold; Fig. 2, a similar reverse view; Fig. 3, a view in perspective of a complete snap-hook constructed in accordance with my invention; Fig. 4, a view of the article in central longitudinal section; Fig. 5, a view of the snap-hook on the line $x-x$ of Fig. 4.

My invention relates to an improvement in that class of snap-hooks in which the body, eye, and hook are cast in one piece, the object being to produce such an article without coring, whereby I effect an economy of time and labor, and produce a superior thing.

With these ends in view, my invention consists in a snap-hook having its chambered body, hook and eye cast integral, its said body being longitudinally divided into two members located at the opposite ends of the eye, which is bent in bringing them into alignment, the hook forming a continuation of one of the said members.

In carrying out my invention, I cast the hook A, the eye B, and the chambered body, integral with each other in the form shown by Figs. 1 and 2 of the drawings, the said body being longitudinally divided as shown, into two members C and C', on a line slightly to one side of its longitudinal center, and in a plane parallel with the plane of the hook A, and at a right angle to the plane of the eye B. The inner faces of the said members C and C', which are respectively located at the opposite ends of the eye, are grooved in being cast, so that when they come together, they form a circular chamber D, to receive the bolt E, and the spiral spring F. By dividing the body of the article longitudinally, I am enabled to cast its respective members

standing apart as shown, and with grooves in their inner faces, thus avoiding coring, and all the expense thereby entailed. In casting the said members, when divided as shown, the upper edges of their outer ends are longitudinally cut away, as at c in Fig. 1, and c' in Fig. 2, so that when the members are brought into alignment, a slot G upon the outer end of the body will be formed, as shown in Figs. 3 and 5, to receive the stem H, of the button I, the said button and stem being cast integral with the bolt, and forming means for shooting the same back by hand against the force of its actuating spring F, which is centered in the said chamber D, by means of a longitudinally divided pin, located in the inner end thereof, and composed of two members J and J', cast with the members C and C', as shown by Figs. 1 and 2 of the drawings. The hook A, forms a continuation of the member C, which is the larger and deeper of the two, the longitudinal division of the body, which they together form, being to one side of its center, as before explained. After the castings have been made and finished, the spring and bolt are placed in position within the member C, of the body, after which the member C', thereof is brought into alignment with it by bending the eye B, and the two parts are secured together by a pin K, which, as herein shown, passes transversely through a lip C², depending from the outer end of the member C', and through the inner end of the hook, at the point where the same merges into the outer end of the member C. It will thus be seen that by means of my invention I am enabled to cast the body, eye and hook of my improved article in one piece without coring, with an obvious economy of time and labor. If the division of the body is made in the plane of the hook which is my preferred construction, and the construction which I have chosen for illustration, I am also enabled to avoid forming the hook askew and bending it into place, which not only increases the expense of production, but weakens the product in a vital point. I might, however, divide the body on some other line than one in the plane of the hook, and do not limit myself to that construction. Other longitudinal divisions of the body are not shown, as it

is thought that they are too obvious to need illustration.

I am aware that a snap-hook having its body, hook and eye cast integral, is not new, 5 and that it is not new to form the body of a snap-hook in two parts. I do not, therefore, claim either of those constructions broadly.

Having fully described my invention, what I claim as new, and desire to secure by Letters 10 Patent, is—

1. A snap-hook having its chambered-body, hook, and eye cast integral, its said body being longitudinally divided into two members connected by the eye, which is bent in bringing them into alignment, the hook forming a 15 continuation of one of the said members, substantially as described.

2. A snap-hook having its chambered-body, hook, and eye cast integral, its said body being longitudinally divided in a plane parallel 20 with the plane of the hook and at a right angle to the plane of the eye and at one side of its longitudinal center into two members connected by the eye, which is bent in bringing them into alignment, the hook forming a 25 continuation of one of the said members, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ALBERT A. PAGE.

Witnesses:

WM. H. KIRSCHNER,
WILLIAM S. COOKE.