(No Model.)

J. M. STUKES.

SNAP HOOK.

No. 451,341. Patented Apr. 28, 1891.

Fig. 1.

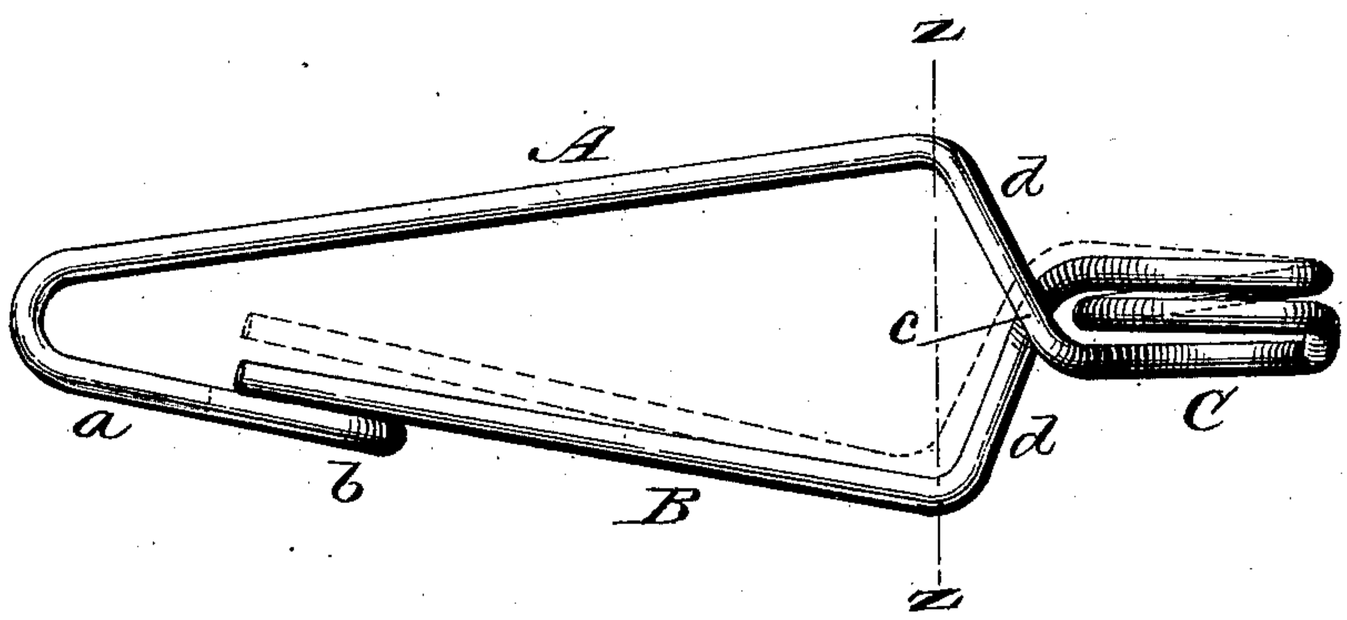


Fig. 2.

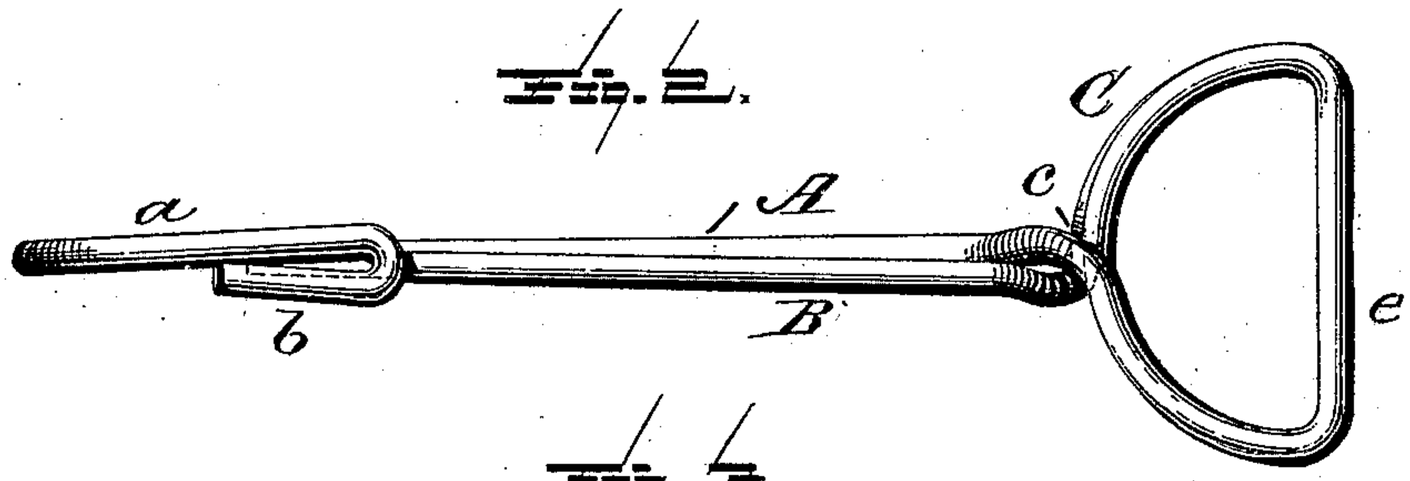
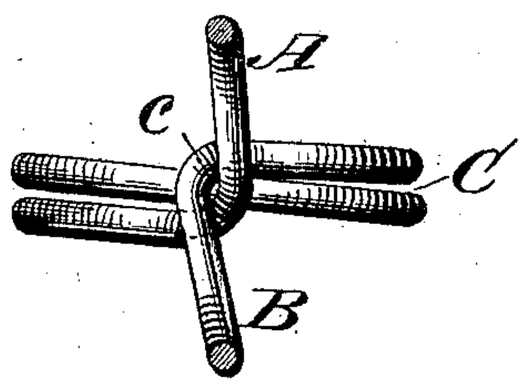


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN MARION STUKES, OF SAN MARCOS, TEXAS.

SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 451,341, dated April 28, 1891.

Application filed December 11, 1890. Serial No. 374,331. (No model.)

To all whom it may concern:

Be it known that I, JOHN MARION STUKES, a citizen of the United States, residing at San Marcos, in the county of Hays and State of Texas, have invented certain new and useful Improvements in Snap-Hooks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

Figure 1 of the drawings represents a side elevation of a snap-hook constructed according to my invention; Fig. 2, a side view thereof; Fig. 3, a detail view showing the manner of twisting the wire to form the spring-eye, said view being taken on line *z z* of Fig. 1.

The present invention has relation to that class of snap-hooks constructed from a single piece of spring-wire; and it consists in the details of construction, substantially as shown in the drawings and hereinafter described and claimed.

The hook, which is preferably constructed of spring-wire, is designed for use in bridles, harness, and for all other purposes to which a snap-hook may be found useful, and is formed from a single length of wire bent to present arms A B and spring-loop C.

The arm A, which I term the "stationary arm" of the hook, has an inwardly-extended shank *a*, the extremity of which is bent in a reverse direction upon itself to form a bearing *b* for the extremity of the arm B, which forms the movable arm of the hook.

The spring-loop C is formed by coiling the wire upon itself, after which the wire crosses, as shown at *c*, and extends outward at an angle to form shoulders *d* to give strength to the hook immediately in front of the spring-loop. The rear portion of the loop C is formed straight, as shown at *e*, for attaching the strap or other connection thereto, whereby it will have a straight bearing instead of on a curve. The inner curve of shank *a* provides means for connecting and holding the ring of a bridle or for other purposes to which a snap-hook may be used.

Twisting the wire so as to form coils in the construction of the loop serves a twofold purpose in not only providing a spring for the snap-hook as well as the loop, but provides increased strength to the loop where the strength is most needed, thus forming a very strong, durable, and effective snap-hook that can be manufactured at a comparatively small cost.

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

A snap-hook constructed of a single piece of wire, having a stationary arm A, bent to form an inwardly-extending shank *a*, with its extremity bent in a reverse direction upon itself to form a bearing *b*, the spring-arm B, and the spring-loop C, formed by coiling the wire upon itself and crossing, as shown at *c*, and extending outward at an angle to form shoulders *d* to strengthen the hook immediately in front of the spring-loop, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN MARION STUKES.

Witnesses:
MARY W. MANLOVE,
W. C. MANLOVE.