(No Model.)

T. D. MORRIS.

SNAP HOOK.

No. 547,444. Patented Oct. 8, 1895.

Fig 1

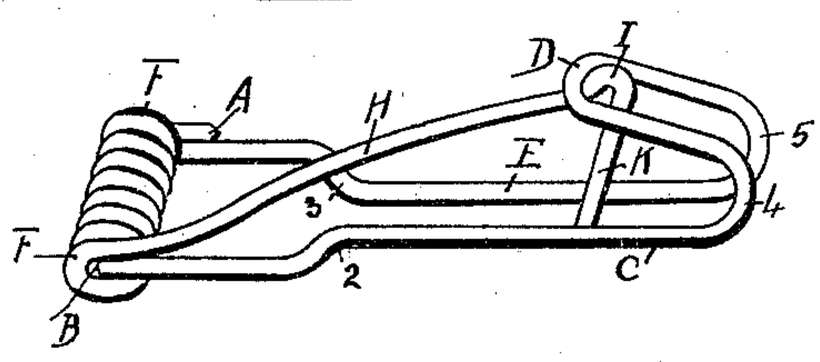
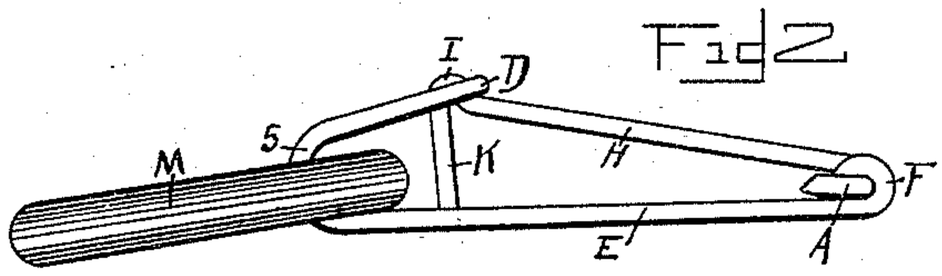


Fig 2



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SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 547,444, dated October 8, 1895.

Application filed February 6, 1895. Serial No. 537,374. (No model.)

To all whom it may concern:

Be it known that I, THOMAS D. MORRIS, residing at Seward, in the county of Seward and State of Nebraska, have invented certain useful Improvements in Snap-Hooks; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a new and novel improvement of a one-piece snap-hook, the object being to provide a snap-hook that shall be light, cheap, and readily operated, and in furtherance of this object my invention comprises a one-piece snap-hook, more fully described hereinafter.

In the accompanyings drawings, Figure 1 shows a perspective view of a snap-hook embodying my invention, while Fig. 2 shows a side elevation with a ring attached.

The aim of my invention being more particularly to provide a cheap, efficient snap-hook, said snap-hook is preferably made of round spring-wire of any suitable thickness, and which can be of brass, steel, or any other slightly-springy metal. I begin by taking a piece of spring-wire of a predetermined length and, beginning with the stub-stem A, which acts as an anchor, provide a bend at right angles, the width of the snap-hook then continuing at right angles and in the same direction with the stub-stem A, forming a main stem C, having a recurved portion 2, then curving upward in the half-loop 4, and being recurved again to form the hook D, continuing in the half-loop 5, then forming the corresponding main stem E, curving outward at 3, and then continuing in a spiral spring F, which spring is formed in a number of folds, as is shown, surrounding the stem B, and finally continuing in a spring-stem H, provided with a semi-loop or hump I, resting below and against the hook portion D, and finally passing downward and ending in the locking-stem K, so as to form, in conjunction with the stems C and E and the hook-portion D, a snap adapted to engage any suitable ring, as shown at M. The spring-stem H can readily be depressed, so that said stem H will drop between the stems C and E, permitting the ready insertion of a ring rope or other device to be engaged by snap. The spring-stem H is continuously forced up and against the hook D, the hump I aiding to engage this hook D, so that said hump also assists in withstanding any strain applied to the end hook D. The device is neat, readily operated, and can be cheaply manufactured, the spiral spring F being engaged by the strap or rope to which the snap is secured.

Now, having thus described my said invention, what I claim as new, and desire to obtain by United States Letters Patent, is—

1. As a new article of manufacture, a one-piece snap hook comprising a hollow spring spiral, said spring spiral extending outwardly upon one side and re-curving, then extending forward and rearward again to form an open hook, the stem continuing through the hollow spiral within which said stem is locked; the remaining end of said hollow spiral spring extending outward in the form of a tongue, then extending downward to close the open hook formed by the first mentioned stem, said tongue being spring actuated and normally held against and within said open hook, all substantially as and for the purpose set forth.

2. As a new article of manufacture, a one-piece, coil spring snap hook comprising the tongue stem, K; said stem being curved and continuing to form the spring stem, H; said spring stem being carried slightly laterally and continued to form the coil spring, F; thence extending and being re-curved to form the looped hook, D; said hook being adapted to accommodate the tongue stem, K; then continuing by means of the stem, C, parallel to the stem, E, then extending laterally and entering said coil spring, F, and finally being clinched within said coil spring, F, all substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS D. MORRIS.

Witnesses:

S. C. LANGWORTHY, Jr.,

D. C. MCKILLIP.