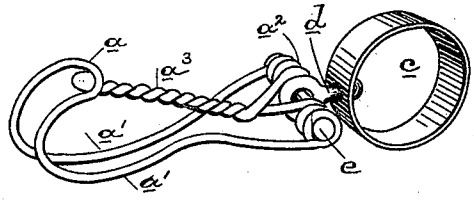
(No Model.)

F. WHITE.

SNAP HOOK.

No. 451,314. Patented Apr. 28, 1891.



Witnesses,
P. Hawse
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Inventor,
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attys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK WHITE, OF POMONA, CALIFORNIA.

SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 451,314, dated April 28, 1891.

Application filed July 11, 1890. Serial No. 358,408. (No model.)

To all whom it may concern:

Be it known that I, FRANK WHITE, a citizen of the United States, residing at Pomona, Los Angeles county, State of California, have invented an Improvement in Snap-Hooks; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to snap-hooks; and it consists in the novel construction hereinafter fully described, and specifically pointed out in the claim.

The object of my invention is to provide a harness and rope snap made of a single piece of spring-wire, the hinge of which is durable and of a character which will prevent it from being clogged.

Referring to the accompanying drawings for a more complete explanation of my invention, the figure represents a view of the hook, and a swiveled eye for the attachment of a rope is shown.

The snap-hook is made of a single piece of spring-wire, preferably steel spring-wire, bent at its center to form the point a, and thence bending downwardly and backwardly, its sides forming the body portion a'. These sides are then separately coiled to form the spring a^2, and thence the ends of said side project forwardly and are twisted to form the tongue a^3, their extreme ends being preferably soldered together and fitting under the point portion a. The eye consists of a ring c, adapted to receive a rope, said ring being pivoted upon the outer end of a stem d, the inner end of which is pivoted upon a cross-pin e, which is fitted to the coil-spring portion of the snap-hook. Thus the eye c is a double-swiveled one, having a pivotal motion upon the stem d, said stem having a pivotal motion upon the cross-pin e.

It will be seen that this construction of snap-hook is very simple, the spring being of a most durable character, which cannot clog up with sand or ice. The eye c, having a double movement, is particularly advantageous for rope connection.

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

A snap-hook composed of a single piece of spring-wire bent centrally to form the point a, the body portion a', the coil-spring portion a^2, and the forwardly-projecting tongue a^3, the cross-pin in said coil portion, the stem pivoted on said pin, and the ring pivoted on said stem, substantially as herein described.

In witness whereof I have hereunto set my hand.

FRANK WHITE.

Witnesses:
IRA F. WHITE,
FRANK. J. MURPHY.