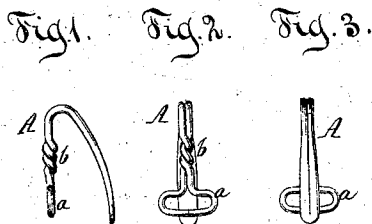


R. WEISS.

Hooks.

No. 136,114.

Patented Feb. 18, 1873.



Witnesses.
Ernst Bilhuber.
E. F. Kastenhuber

Inventor.
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UNITED STATES PATENT OFFICE.

RICHARD WEISS, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN HOOKS.

Specification forming part of Letters Patent No. 136,114, dated February 18, 1873.

To all whom it may concern:

Be it known that I, RICHARD WEISS, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Hooks; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a side view of my hook. Fig. 2 is a rear view of the same. Fig. 3 is a front view of the same.

Similar letters indicate corresponding parts.

This invention consists in a hook made of wire and bent so that a single loop is formed at the end of the shank of the hook, while said shank is twisted to prevent the loop from spreading open when the same is exposed to a strain.

In the drawing, the letter A designates a hook, which is made of a single piece of metal wire, that is doubled up so that the bight of the wire forms the tip of the hook, while the two ends of the wire are bent in such a manner as to form a loop, *a*, at the end of the shank of the hook. The ends of the wire meet at the center of the loop, as shown in Fig. 2, and if a tape is drawn through the loop and exposed to a strain, said ends are liable to spread open and the tape is apt to

become disengaged. This difficulty I have overcome by putting a twist, *b*, in the shank of the hook, as shown in Figs. 1 and 2. By this twist the loop is firmly closed and its ends are prevented from spreading open.

This hook is intended particularly for neck-tie shields, with which it is connected by an elastic tape passed through the loop *a*. As this tape is subjected to a strain each time the neck-tie is put on or taken off, the loop has been liable to spread open, and it was found necessary to connect the ends of the wire by solder. The operation of soldering, however, requires much time, and after all it was not sufficient to produce the desired effect. The twist *b* which I use for locking the loop can be put in while the hook is being formed, and the ends of the wire are effectually prevented from spreading open.

What I claim as new, and desire to secure by Letters Patent, is—

As a new article of manufacture, a wire hook, A, provided with a single loop, *a*, which is locked by a twist, *b*, substantially as shown and described.

This specification signed by me this 23d January, 1873.

RICHARD WEISS.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.