(No Model.)

C. VOORHIS.

SPRING HOOK FOR SUSPENDER BUCKLES.

No. 387,329. Patented Aug. 7, 1888.

Fig. 1.

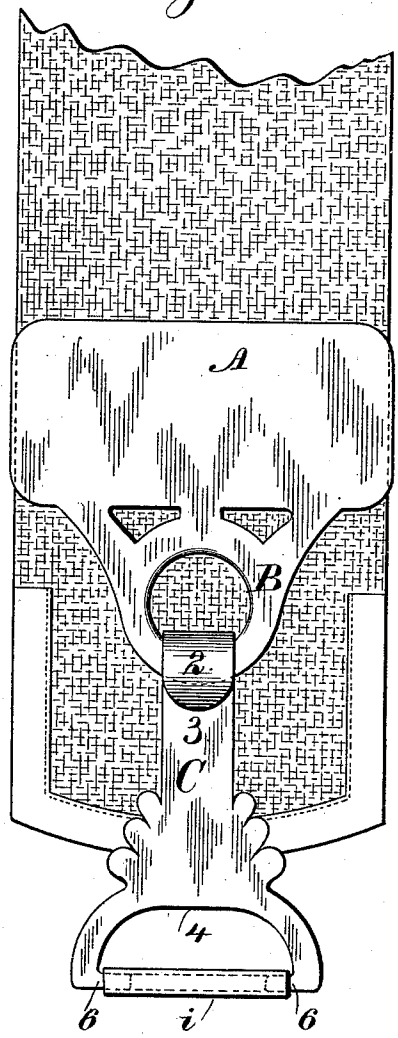


Fig. 2.

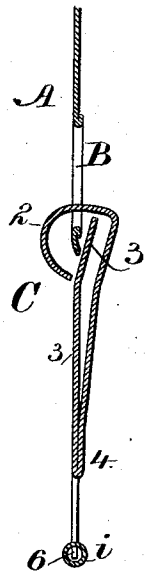
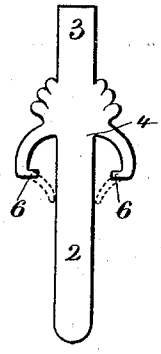


Fig. 3.



Witnesses,
Chas. H. Smith
J. Stail.

Inventor.
Calvin Voorhis.
per Lemuel W. Serrell.
Atty

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CALVIN VOORHIS, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO ABRAHAM SHENFIELD, OF SAME PLACE.

SPRING-HOOK FOR SUSPENDER-BUCKLES.

SPECIFICATION forming part of Letters Patent No. 387,329, dated August 7, 1888.

Application filed December 1, 1887. Serial No. 256,600. (No model.)

To all whom it may concern:

Be it known that I, CALVIN VOORHIS, of the city and State of New York, have invented an Improvement in Spring-Hooks for Suspender-Buckles, of which the following is a specification.

Snap-hooks have been made with a tongue or spring within the hook and closing against the point thereof; but in most instances the ring that is passed into the snap-hook can pass down behind the spring; and hence it is not adapted to suspenders in which the ring or eye of the buckle should always remain between the inner side of the hook and the spring, so as to be disconnected easily by forcing such ring down against the spring and out from beneath the point of the hook.

My invention relates to the peculiar construction of the spring-hook, as hereinafter set forth, whereby it is especially adapted to suspender-buckles.

In the drawings, Figure 1 is an elevation of the suspender-buckle and spring-hook. Fig. 2 is a section of the spring-hook and of a portion of the suspender-buckle, and Fig. 3 shows a blank ready to be bent up for forming the spring-hook.

The suspender-buckle A is to be of any desired character, and it is provided with a ring or loop, B, as usual. The spring-hook C is made of sheet metal, having a hook portion, 2, and a spring-tongue, 3, within the hook. This tongue 3 is preferably in one piece of sheet metal with the rest of the snap-hook, so as to be folded at 4 and lie flat against the body of the hook. The hook 2 surrounds the end of the spring-tongue 3, and the upper part of the hook is nearly flat, so that there is space for the end of the spring to play freely within the hook; but the ring or loop B cannot pass behind the end of the spring-tongue; hence to disconnect the buckle and spring-tongue it is only necessary to press the loop B down between the spring and hook and out from beneath the end of the hook. To insert the loop or ring B, the spring-tongue is pressed back. The frame or mortise receiving the head-piece of the suspender-ends is formed by the inwardly-projecting prongs 6, that may be cut out of the sheet metal, as indicated by dotted lines, and bent up to place and their ends soldered together; but I prefer to slip a short piece of tube, *i*, upon these prongs 6, so as to form a cross-bar for the head-piece of the suspender-ends.

I claim as my invention—

1. The spring-hook for suspender-buckles, having a spring-tongue and a hook passing over the end of the tongue, with a nearly flat portion in close proximity to the end of the tongue, and the tongue closing against the point of the hook, said tongue being of sufficient length to prevent the buckle-ring from passing over the end and to the rear side thereof, substantially as described.

2. The spring-hook having the hook and the spring-tongue of one piece of sheet metal folded at 4, and the tongue within the hook, and the prongs 6, extending toward each other to receive the head of the suspender-ends, substantially as specified.

Signed by me this 23d day of November, 1887.

CALVIN VOORHIS.

Witnesses:
GEO. T. PINCKNEY,
WILLIAM G. MOTT.