W. A. SCHLEICHER.

SNAP HOOK.

APPLICATION FILED SEPT. 3, 1907.

960,041. Patented May 31, 1910.

Fig. 1.

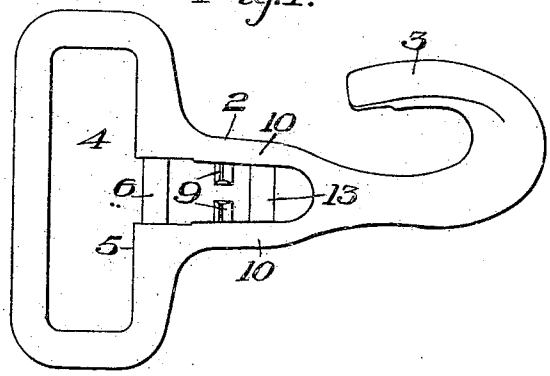


Fig. 2.

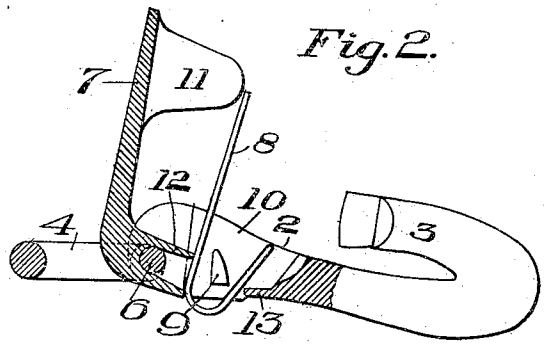


Fig. 3.

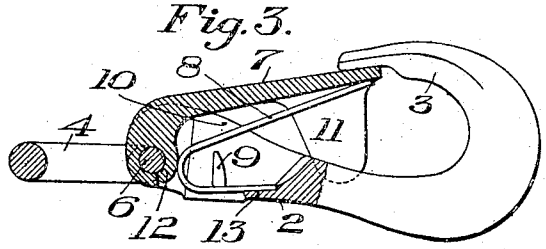
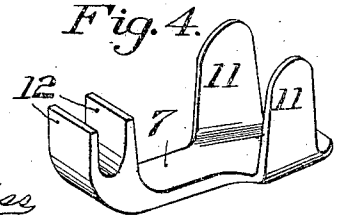


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM A. SCHLEICHER, OF CLEVELAND, OHIO.

SNAP-HOOK.

960,041. Specification of Letters Patent. Patented May 31, 1910.

Application filed September 3, 1907. Serial No. 391,018.

To all whom it may concern:

Be it known that I, WILLIAM A. SCHLEICHER, of Cleveland, Cuyahoga county, Ohio, have invented a new and useful Snap-Hook, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view of the body portion of the hook and showing the hook proper bent out of its final position; Fig. 2 is a side view of the same partially broken away, and showing the manner in which the tongue is applied; Fig. 3 is a side view, partially in section, of the finished hook; and Fig. 4 is a perspective view of the tongue removed and in inverted position.

My invention relates to the class of snap hooks, and is designed to provide a simple, strong and efficient hook which can be manufactured rapidly and at a comparatively small cost.

Referring to the accompanying drawings, the numeral 2 designates the body portion having the hook proper 3 and the usual loop 4 for its connection to a strap, etc. The front bar 5 of the loop 4 is cut away at its central portion to constitute a bearing pin 6 for the tongue 7. The shank portion of the body which carries the hook proper is also cut away forwardly of the pin 6 to form a pocket for a leaf-spring 8, the walls of this cut-away portion being formed with the inwardly-projecting lugs 9 which constitute a bearing for said spring. The side walls of this cut-away portion are also extended upwardly as shown at 10 to constitute guiding flanges for the tongue. The tongue is provided at its forward end with the depending guide projections 11 which loosely embrace the shank portion of the body, and its rear downwardly-curved end is slotted or shaped to form the lips 12.

The body portion preferably consists of a casting of malleable metal, and is cast with the hook 3 turned to one side of its final position, as shown in Figs. 1 and 2. The cut away portion is widened on both walls adjacent to the pivot pin. This widening of the cut-away portion provides means for casting a perfect pivot pin for the full width of the tongue, and also avoids a fitting of the shank between the walls of the recess, the only fitting which might be required would be the short portion of the recess of reduced width in which the tongue rests. The tongue 7 is applied with the hook in this position, the lips 12 being slipped over the pin 6, and closed sufficiently to permit the tongue to be turned back to the position shown in Fig. 2. The spring 8 is then inserted, its short arm being seated on the shelf or flange 13 at the forward edge of the cut-away portion, and bearing against the lower surfaces of the lugs 9. The tongue is then depressed to its normal position, the hook 3 is bent to its final position, and the lips 12 are closed around the pin 6 in the manner shown in Fig. 3.

The advantages of my invention result from the simplicity and cheapness of construction, which provides a strong and durable hook.

By the widening of this recess at the pivot pin the rounded portion or solid fillet which is usually formed at the angular portion of a casing does not have to be removed, as this portion is considerably wider than the width of the tongue, this avoids considerable expense in the fitting up of the snap hook.

I claim:—

A snap hook having a loop at the end of the shank thereof, the front part of which is recessed at its central portion and the recess having parallel sides, the shank having a second recess with parallel sides in front of the first recess, the space between the sides of the first recess being greater than the space between the sides of the second recess, a spring seat in the second recess, a pin in the first recess, a tongue pivotally engaging said pin and lying within both recesses, the sides of the heel of the tongue engaging the walls of the second recess at all times, the heel of the tongue being of less width than the first recess, and a leaf spring seated on the spring seat and engaging the shank and the tongue; substantially as described.

In testimony whereof, I have hereunto set my hand.

WILLIAM A. SCHLEICHER.

Witnesses:

RUSSELL W. JAITE,

FRED J. AHRENS.