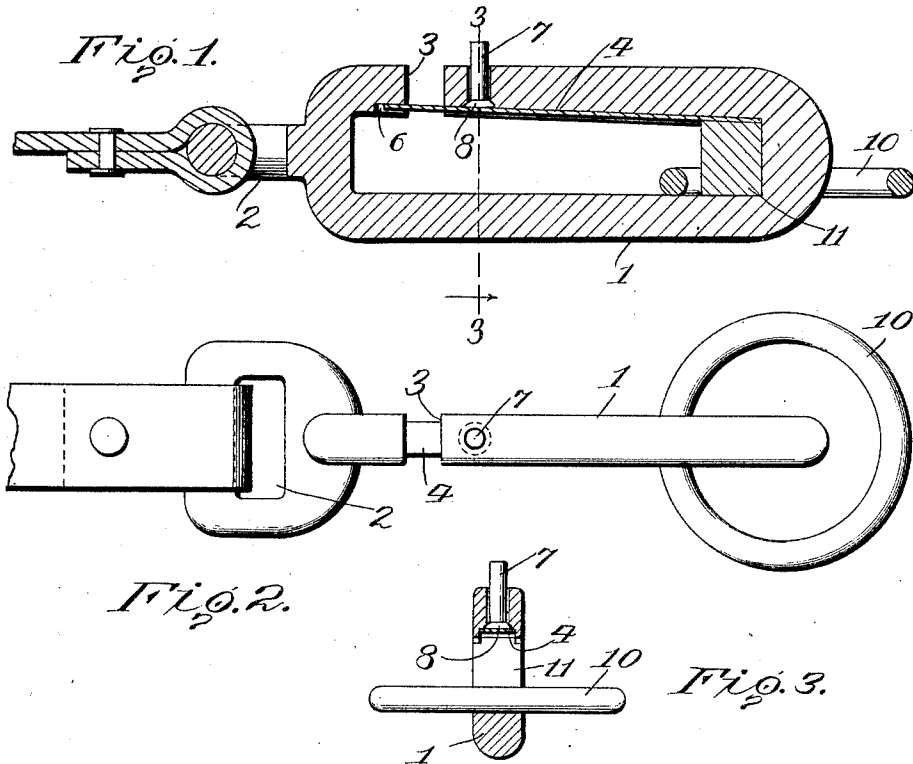


J. BARRY.
SNAP HOOK.

APPLICATION FILED MAY 23, 1911.

1,009,631.

Patented Nov. 21, 1911.



Witnesses
W. R. Woodson
Juana M. Fallin

Inventor
Jefferson Barry

By *W. R. Woodson*, Attorneys.

UNITED STATES PATENT OFFICE.

JEFFERSON BARRY, OF AVOCA, MICHIGAN.

SNAP-HOOK.

1,009,631.

Specification of Letters Patent. Patented Nov. 21, 1911.

Application filed May 23, 1911. Serial No. 623,931.

To all whom it may concern:

Be it known that I, JEFFERSON BARRY, a citizen of the United States, residing at Avoca, in the county of St. Clair and State of Michigan, have invented certain new and useful Improvements in Snap-Hooks, of which the following is a specification.

This invention has relation to snap hooks especially designed to be used upon the neck yokes of harness, but which may be used advantageously in other capacities.

The object of the invention is to provide a snap hook of simple and durable structure only embracing a minimum number of parts and having these parts so arranged that they coöperate with each other in maintaining their proper relations and positions, and at the same time affording a secure and durable structure.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a longitudinal sectional view of one form of the hook; Fig. 2 is an edge elevation of the same; Fig. 3 is a transverse sectional view of the same cut on the line 3—3 of Fig. 1.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

The hook consists of a frame 1 which is preferably formed up from rod or may be in the form of a forging. The frame is provided at one end with an eye 2. The frame 1 is provided at one side and near the end provided with the eye 2 with an opening 3 through which the snap ring is adapted to be inserted. A flat spring 4 is secured against that side of the frame 1 having the opening 3 and lies between the opposite sides of the said frame with its free end portion bridging the opening 3. The inner face of that side of the frame 1 having the recess 3 is recessed as at 6 to receive the spring 4 so that its inner surface is approximately in alinement with the inner surfaces of the end

portions of the side of the frame to which it is attached. A detent 7 is slidably mounted in the longer portion of that side of the frame 1 which is provided with the opening 3, and the said detent is provided at its inner end with an enlarged head 8 which lies between the side of the frame 1 and the spring 4. The said spring holds the said detent in place with its outer end projected slightly beyond the outer surface of the side of the frame 1. The hook is adapted to receive a ring, indicated at 10. This ring is placed in position in the hook by forcing its side laterally against that portion of the spring 4 which bridges the opening 3, whereby the free end portion of the said spring is depressed and carried away from the inner surface of the frame 1. Thus the said ring may be slipped in beyond the free end of the spring 4 and may then move longitudinally of the hook and engage the end thereof opposite that end at which the eye 2 is located.

A block 11 is inserted in the end of the hook remote from the eye 2 and bears against one end of the spring and effectually holds the same in position. Any suitable means may be provided for holding the block 11 in position, but preferably the said block is secured by upsetting or slightly spreading its ends, whereby they slightly overlap the inner side portions of the frame and the end of the spring and secure the parts. The addition of this block adds materially to the strength of the work for the reason that it forms an additional thickness of metal against which the ring may bear when in position, thus relieving the end of the hook remote from the eye 2 of strain applied through the said ring.

Having thus described the invention, what is claimed as new is:

A hook comprising a frame having spaced side portions one of which is provided with an opening, a flat spring lying against the inner surface of the side portion having the opening and bridging the said opening, a block inserted between the opposite side portions

of the frame at one end thereof and securing
said spring in position and protecting the
bend of the hook, and a detent slidably
mounted in that side of the frame having
5 the opening and bearing at one end against
the spring and located between said opening
and said block.

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

JEFFERSON BARRY. [L.S.]

Witnesses:

F. A. HILL,
GEORGE D. KOOK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
