

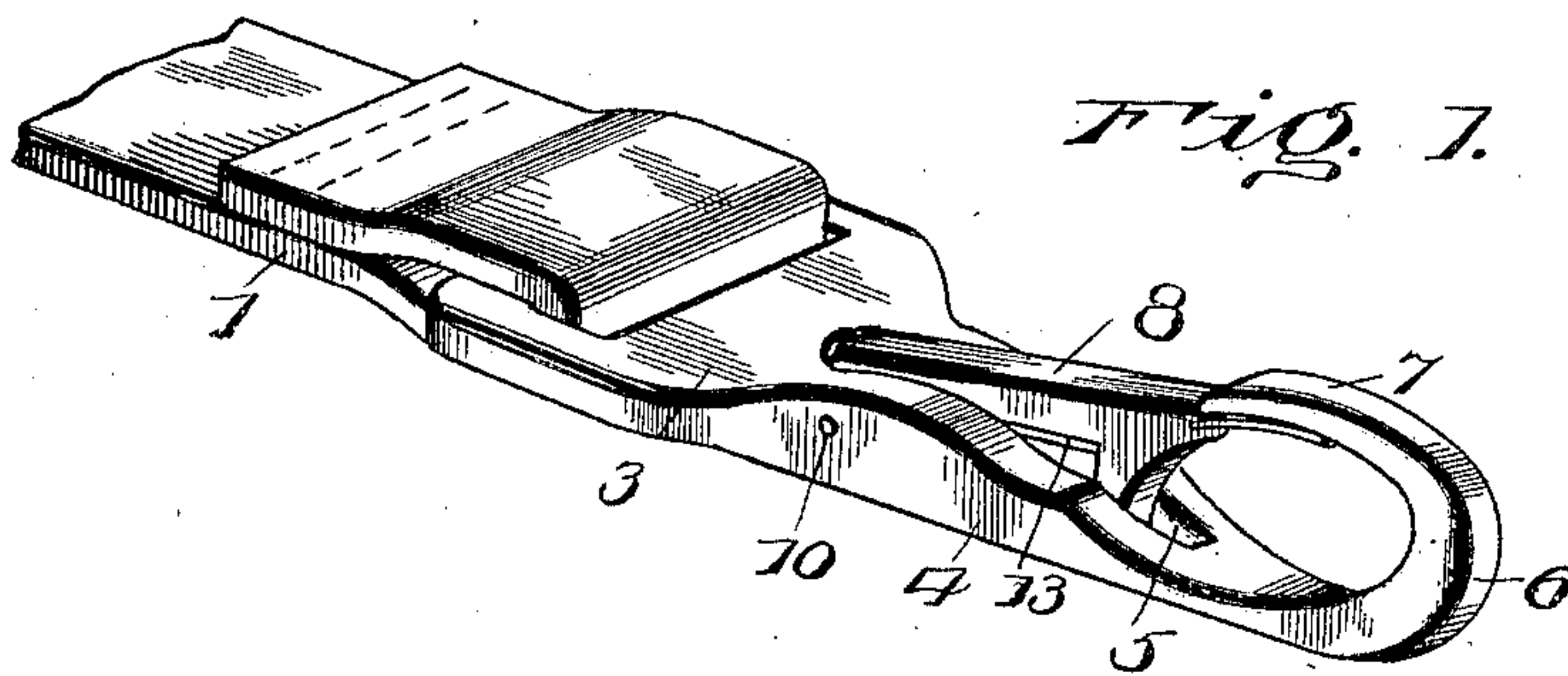
No. 688,615.

F. W. FEIDLER.  
SNAP HOOK.

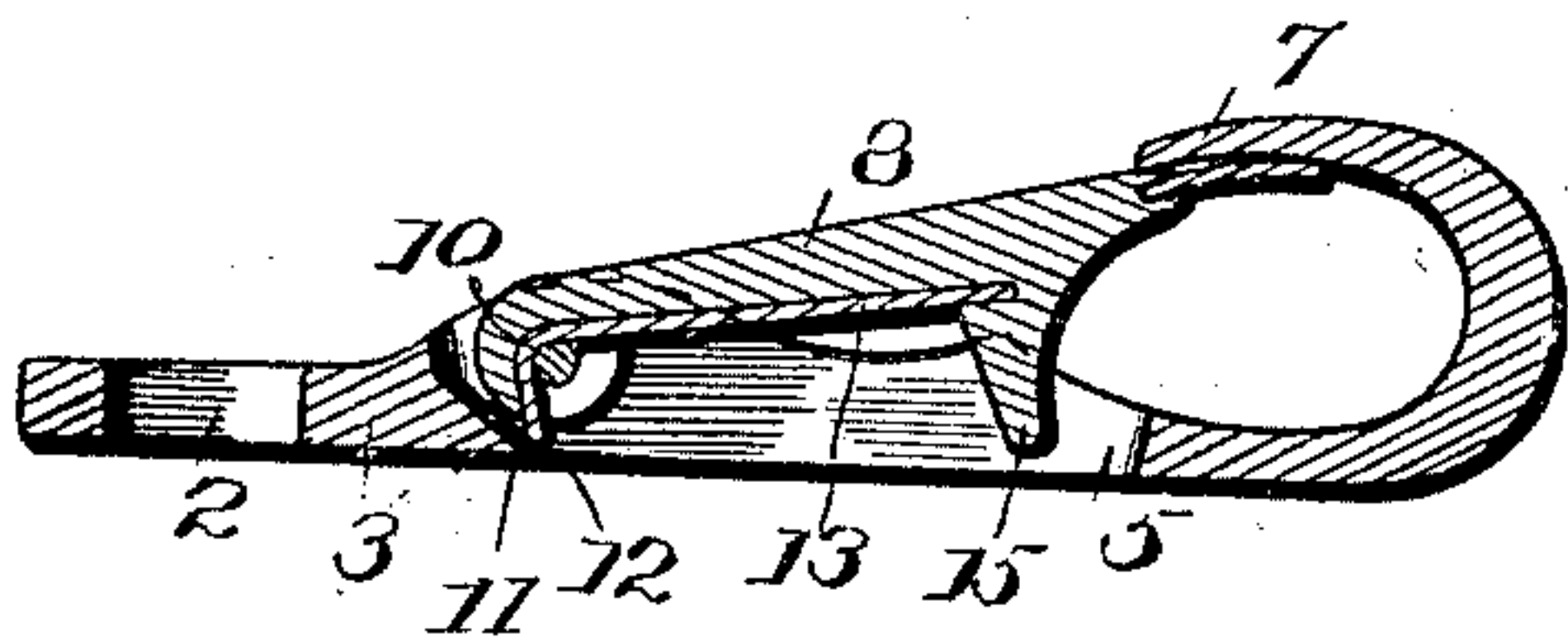
Patented Dec. 10, 1901.

(Application filed June 21, 1901.)

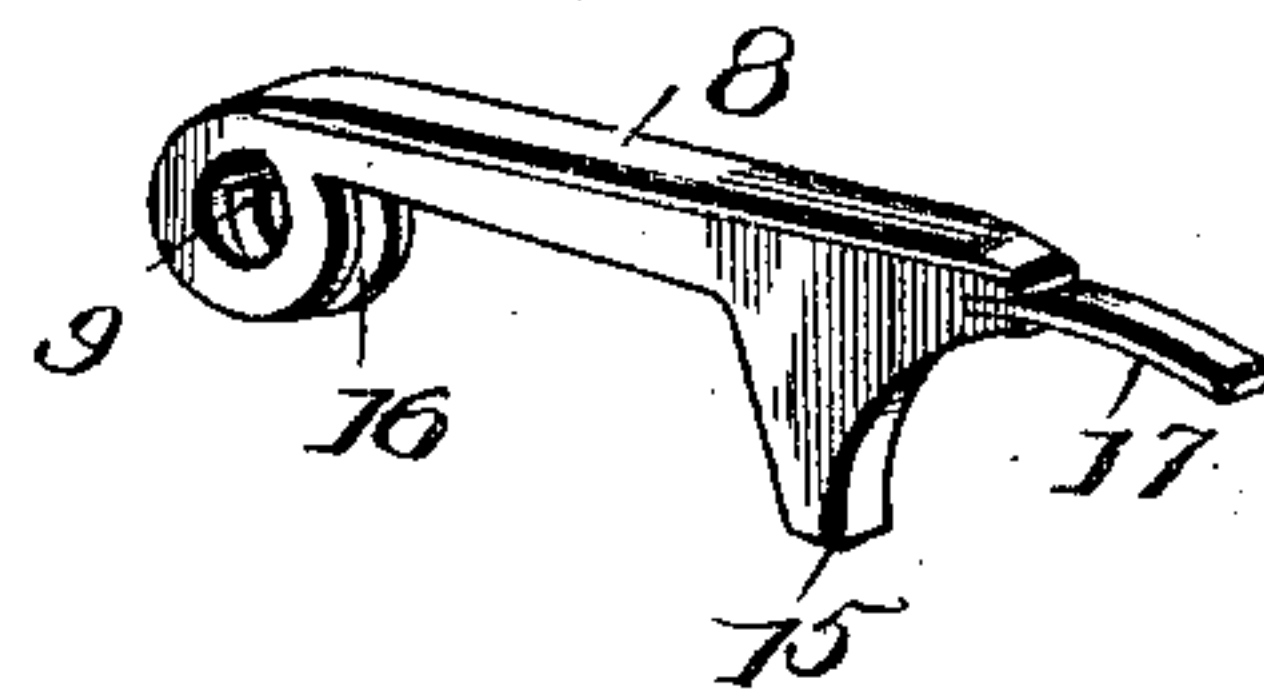
(No Model.)



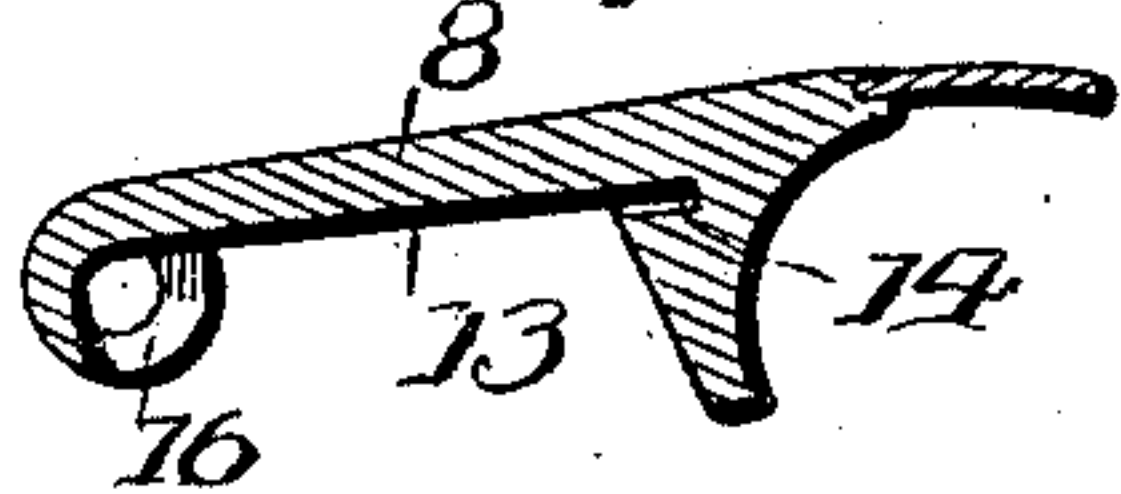
*Fig. 2.*



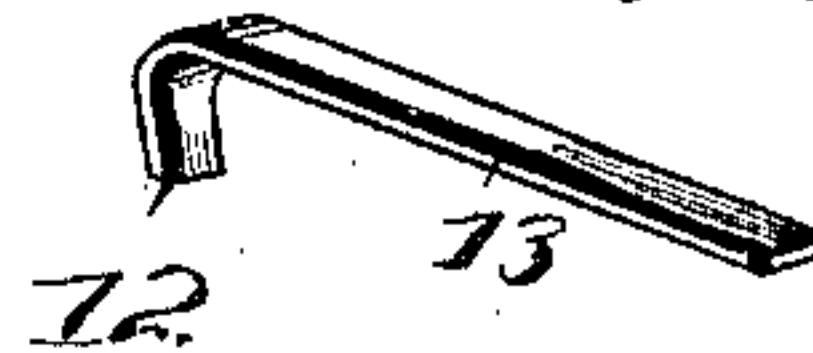
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



Inventor

F. W. Feidler.

Witnesses

Wm. J. Jacobi  
A. G. Miller.

W. J. Fitzgerald  
Attorney.



# UNITED STATES PATENT OFFICE.

FRANK W. FEIDLER, OF DAVID CITY, NEBRASKA.

## SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 688,615, dated December 10, 1901.

Application filed June 21, 1901. Serial No. 65,464. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK W. FEIDLER, a citizen of the United States, residing at David City, in the county of Butler and State of Nebraska, have invented certain new and useful Improvements in Snap-Hooks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to harness, and more particularly to what is commonly designated a "snap-hook;" and my object is to provide a securing device by which the end of a strap or other portion of the harness may be very quickly attached to a ring or other part thereof.

The details of my invention will be fully set forth in the following specification and the preferred form of construction pointed out in the claim, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my invention complete as applied to use. Fig. 2 is a longitudinal section of Fig. 1, showing the strap removed therefrom. Fig. 3 is a perspective detail view of the tongue of my improved snap-hook. Fig. 4 is a longitudinal section of Fig. 3. Fig. 5 is a perspective detail view of the preferred form of spring.

Each part of the drawings will for convenience be designated by a reference-numeral, the same numeral applying to a similar part throughout the several views.

Referring to the figures on the drawings, 1 indicates a portion of a strap or rein, which may be connected to my improved snap by extending the same through a suitable slotted opening 2 in the body portion 3, said body portion being formed in any preferred way and of any desired material and slightly tapered and extended forwardly, as indicated by the numeral 4, the section 4 being slotted, as indicated by the numeral 5, while a hook-terminal 6 is formed on said extension, as is common, and provided with the overlapping lip 7, designed to cooperate with the tongue 8, which latter is provided with an aperture 9, designed to receive the rivet or bolt 10, extending through suitable apertures in the contiguous part of the extension 4, whereby

the tongue is pivotally mounted in the slot 5, formed in said extension.

Adjacent to the pivot-point 10 I provide in the inner end of the slotted opening 5 the shoulder 11, against which the angular extension 12 of the spring 13 is designed to bear, and thereby hold the tongue normally outward or directly in engagement with the lip 7. The opposite end of the spring 13 is seated in a suitable recess 14, provided in a contiguous part of the tongue 8, immediately above the upper end of the downwardly-extending finger 15, which latter is designed to play loosely in the slot 5 and prevent undue lateral movement of the free end of the tongue and also to prevent the ring or other object engaged by the hook from reaching into engagement with the spring 13.

The angular extension 12 passes loosely through a slotted opening 16, formed in a contiguous part of the pivoted end of the tongue 8, in order that it may rest against the shoulder 11, said slot 16 being of sufficient size to permit the angular extension to play freely therein when the free end of the tongue is pressed inward. By providing the slot 16 and extending the spring around the rivet 10 a firm steel bearing is provided for said rivet, thereby holding the tongue in place and protecting it against undue wear. By thus disposing the spring so that the angular extension thereof will reach outward through the slotted opening 16 said spring may be very cheaply and expeditiously mounted in its operative position and will be held securely against casual displacement. The free end of the tongue 8 may be provided with a transverse slit designed to receive the end of the spring or tongue section 17, properly curved to bear snugly against the inner face of the lip 7, the extreme end being preferably beveled, so as to lie intimately in contact with such surface, and thereby prevent the ring engaged by the lip from casually slipping past the free end of said tongue, as might possibly be the case in the absence of such spring.

In practice it is thought that the spring 17 may be entirely dispensed with, though I prefer to employ said spring in such cases as I may find it desirable so to do.

The various parts of my invention may be



formed of any preferred material, and while I have described the preferred construction and arrangement of parts I desire to comprehend all substantial equivalents and substitutes as may be considered to fall fairly within the scope of my invention.

Having thus fully described the construction of my improved snap-hook, what I claim as new, and desire to secure by Letters Patent, is—

A snap-hook comprising a body-section having a hook-terminal and the longitudinal slot 5; a tongue pivotally mounted in said slotted opening and extending forward in engagement with said terminal, said tongue being

provided upon its extreme outer or free end with a spring inserted in the end of the tongue said spring being designed to bear snugly against the inner surface of said hook-terminal whereby the ring, staple or the like engaged by the hook will be prevented from casually slipping past the tongue, all combined substantially as specified and for the purpose set forth.

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

FRANK W. FEIDLER.

Witnesses:

MATT MILLER,  
LOUIS STRAKA.