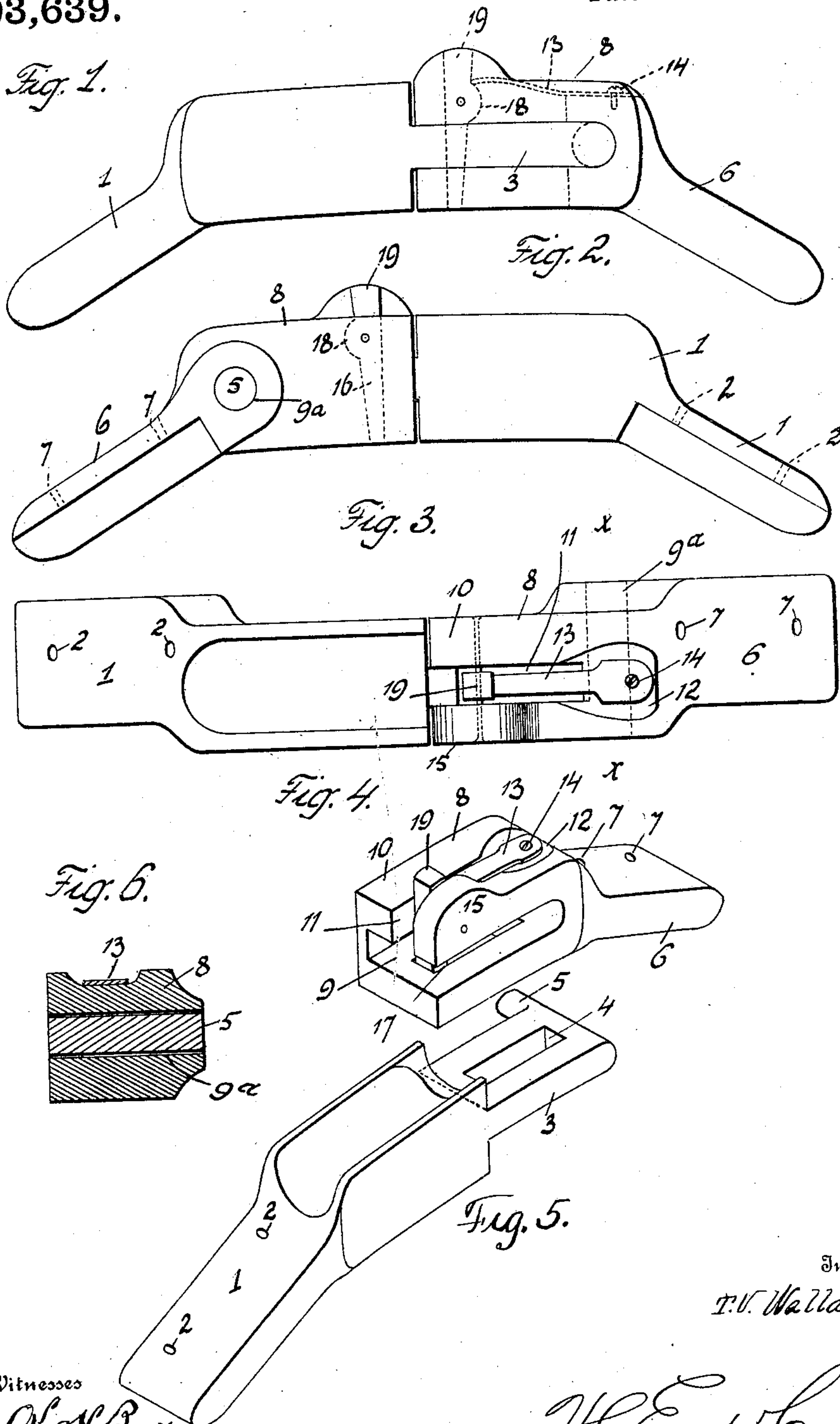


T. V. WALLACE.  
HARNESS COUPLING.  
APPLICATION FILED FEB. 20, 1908.

Patented Nov. 10, 1908.

903,639.



Witnesses

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# UNITED STATES PATENT OFFICE.

THOMAS V. WALLACE, OF MONONGAHELA, PENNSYLVANIA.

## HARNESS-COUPLING.

No. 903,639.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed February 20, 1908. Serial No. 416,851.

*To all whom it may concern:*

Be it known that I, THOMAS V. WALLACE, a citizen of the United States of America, residing at Monongahela, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Harness-Couplings, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to harness couplings, and its object is, to provide a snap-coupling for horse collars or harness especially designed for fire department horses.

The invention comprises two coupling members adapted to be quickly connected and disconnected, and so constructed as to insure a firm and reliable fastening.

The construction of the improvement will be fully described hereinafter in connection with the accompanying drawing which forms a part of this specification, and its novel features will be set forth in the appended claims.

In the drawing:—Figure 1 is an elevation of one side of a coupling embodying the invention, Fig. 2 is a similar view of the opposite side of the same, Fig. 3 is a top plan view of the coupling, Fig. 4 is a view in perspective of one of the coupling members, Fig. 5 is a similar view of the other member, and Fig. 6 is a section on the line  $x-x$  of Fig. 3.

One of the coupling members consists of a body portion 1 formed with rivet holes 2 for its attachment to a collar or other part of a harness, and having a projecting tongue 3 formed with an elongated slot 4, and a laterally projecting lug 5. The other member consists of a body portion 6 formed with rivet holes 7 and an integral extension 8 having a longitudinal recess 9 and a socket 9<sup>a</sup>. The upper side 10 of the extension 8 is provided with a longitudinal slot 11 and a seat 12 in which is secured a flat spring 13 by a screw 14. One wall of the slot 11 is formed with a lug 15 to which is pivotally secured a pin 16 the lower end of which extends into an elongated slot 17 formed in the base of the extension 8. This pin 16 is provided with a semi-circular projection 18 against which the free end of the spring 13 bears.

The utility and operation of the device constructed as thus described will be readily understood. When pressure is applied to

the head 19 of the spring-pressed pin, said pin is raised against the tension of the spring 13 into the slot 11 permitting the tongue 3 to be inserted into the recess 9, and its lug 5 to pass into the socket 9<sup>a</sup>. When the pin is relieved of pressure the spring returns to its vertical position, and as the slot 4 in the tongue 3 registers with the slot 17, and as the pin extends through both of said slots 4 and 17 the two coupling members are firmly connected.

It will be apparent that the coupling members may be quickly disconnected by raising the pin 16 by pressure of the thumb.

The improvement provides a snap coupler especially well adapted for fire department service as it may be operated as readily as an ordinary snap-hook, and insures a firm connection of the members.

Having fully described my invention what I claim as new and desire to secure by Letters Patent, is

1. A snap coupling for harness comprising two members, one of which is provided with a longitudinally slotted tongue having a laterally projecting lug, while the other member is formed with a recess and socket to receive said tongue and lug and with a slot registering with the slot in said tongue, and having a longitudinal slot at its upper portion, and a spring pressed pin extending through said longitudinal slot.

2. A snap coupling for harness comprising two members, one of which is provided with a longitudinally slotted tongue having a laterally projecting lug, while the other member consists of a body portion provided with an extension formed with a recess and socket to receive said tongue and lug, and having a slot registering with the slot in said tongue, and further having a longitudinal slot and spring seat, a pin pivotally secured to said extension and having a rounded projection, and a spring secured to said seat and having its free end bearing against said projection.

3. A snap coupling of the type described comprising two members, one of which is provided with a tongue having a slot, a lug projecting laterally from said tongue, the other of said members having a slotted extension receiving said tongue and having a socket to receive said lug, and means carried by said extension normally projecting through the slot in said tongue for securing the members together.

4. A coupling of the type described com-



prising two members, one of which embodies a body portion provided at one end with a longitudinally slotted tongue and having a lug projecting laterally from the tongue, the  
5 other member comprising a body provided with an extension cut away to receive the said tongue and having a socket to receive said lug, and pivoted means carried by said extension normally projecting through the  
10 slot in said tongue for securing the members together.

5. A snap coupling of the type described comprising two members, one of which is provided with a tongue and has a lug pro-

jecting laterally from the tongue, and the 15 other of which members is provided with a recessed extension receiving the tongue and having a socket receiving the lug, and means carried by said extension for securing the tongue within the extension and the lug with- 20 in its socket.

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

THOMAS V. WALLACE.

Witnesses:

J. C. BARNELL,  
A. ANNUNZIOTA.