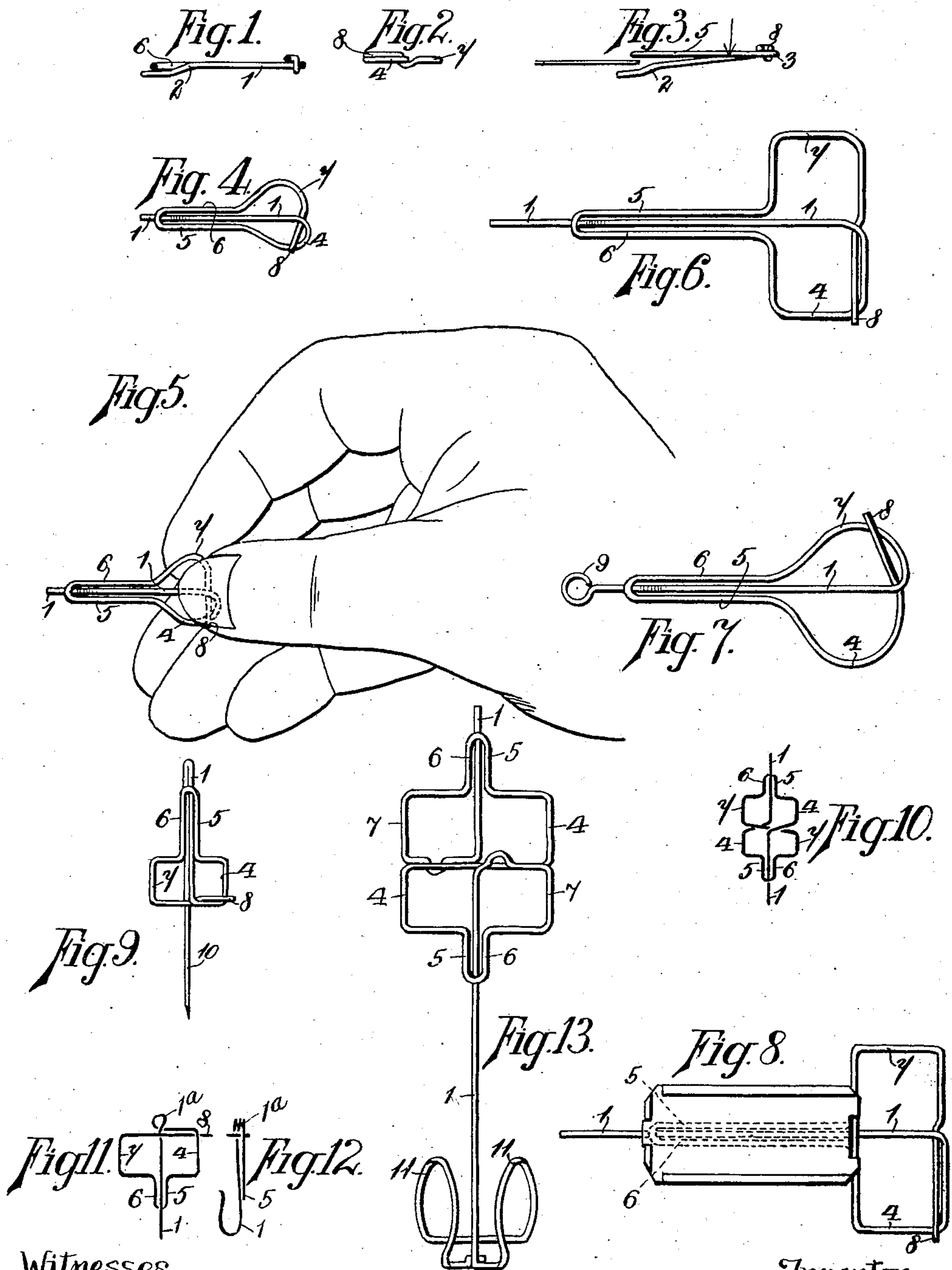


No. 855,337.

PATENTED MAY 28, 1907.

F. RAUPACH.  
FASTENING DEVICE.

APPLICATION FILED MAY 21, 1906.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

FRITZ RAUPACH, OF LONDON, ENGLAND.

## FASTENING DEVICE.

No. 855,337.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed May 21, 1906. Serial No. 317,994.

*To all whom it may concern:*

Be it known that I, FRITZ RAUPACH, a subject of the German Emperor, residing at 59 Gresham street, in the city of London, England, have invented certain new and useful Improvements in Fastening Devices; 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.

This invention refers to a fastening composed of bent wire or the like of the class in which papers, cards or other articles to be fastened together are clipped between two portions of the fastening and held firmly in position. The fastening is of the type in which one portion of the wire is bent into a bow or loop and another portion constituting a tongue or needle is bent over and comes across the loop. With fasteners of this description as hitherto constructed, the needle or tongue portion has simply crossed the loop portion at one or two places so that the fastener practically grips the papers or other articles to be fastened together at one or two points only, and consequently the papers or the like are very likely to slip out or be displaced sidewise.

According to the principle of a fastening constructed according to my present invention, one part of the bow or handle portion is bent into a narrow elongated loop and the needle or tongue portion lies along or between the wires constituting this narrow elongated loop so that the papers or other articles to be fastened together are gripped for a considerable length.

In order that my said invention may be better understood I will now proceed to describe the same with reference to the drawings accompanying this specification, in which:—

Figure 1 is a longitudinal section of the preferred form of my device; Fig. 2 is an end view looking from the bow or handle end; Fig. 3 is a side view of the fastening as it would appear when being opened; Fig. 4 is a plan of the fastening; Fig. 5 shows the method of manipulating the fastening; Figs. 6 to 13 show various modifications of the device adapted to various uses.

The same numerals of reference are employed to denote the same parts in all the views:—

Referring first to Figs. 1 to 5, it will be seen

that the fastening is made entirely from one piece of wire. The portion 1 forms the needle or tongue. The wire is then bent into a bow or loop 4 and into the narrow elongated portion 5, 6. There is then another loop 7 corresponding symmetrically to the loop 4. The wire terminates at 8. If desired, the needle or tongue 1 may lie partly between the parts 5, 6 and be bent up near the end as at 2, Fig. 3. At Fig. 5 it will be seen how the fastening is manipulated. It is grasped with the thumb pressing against the needle 1 and the first and second fingers on the other side of the loops 4 and 7 so that when the needle 1 is pressed with the thumb it is raised from the space between the portions 5, 6 of the elongated loop and the paper or the like can be inserted. The paper or the like is held firmly and cannot be easily withdrawn or displaced laterally owing to the length of the gripping parts.

The other forms of the device shown are precisely similar to that described in principle, but the variations of form are introduced to suit the various uses for which the fastener may be intended.

Fig. 6 shows a standard form of the fastener with the bow or handle somewhat differently shaped to that of the fastener previously described.

Fig. 7 shows a form of the fastener suitable for a trouser clip, the end of the tongue or needle being bent into a loop 9 to facilitate insertion.

Fig. 8 shows a form of the device useful for holding papers and the like. In this case a metal slide is clipped over the loops 4 and 7 and extends above the elongated loop 5, 6. This slide is intended for the reception of a label to denote the class of papers to be filed in a particular fastener.

Fig. 9 shows another form of the device in which the needle or tongue portion 1 is bent back and comes to a long point 10. This form is useful for inserting tickets and the like in goods as the ticket can be inserted in the clip portion and the needle 10 then inserted into the goods.

Fig. 10 shows a further form of the fastening in which two of the devices are constructed from one piece of wire the fasteners pointing in opposite directions. A fastener of this kind may be used, for example, for clipping together labels, postcards and the like in a series one beneath the other.

Figs. 11 and 12 show in plan and side ele-



vation another form of the device with a hook attached for hooking labels or the like over a string or into textile or other material, and provided with a coiled spring 1<sup>a</sup> at one  
 5 end of the tongue 1 to further assist in maintaining the paper clasp members in close engagement.

Fig. 13 shows a further form of the device in which two of the fasteners are formed together pointing in opposite directions and a wire hook 11 is formed below them. A use  
 10 for which this fastening could be employed would be holding price tickets or the like over the handle bar of a cycle, or for clipping  
 15 articles on to any rod, bar, plate or the like.

It is obvious that the fastening may be varied greatly in shape retaining the principle of a bow or handle portion drawn out  
 20 into an elongated loop and a spring tongue or needle portion pressing down on or between the sides of such elongated loop, such portions being capable of easy separation for the insertion of papers or the like, by pressure on a portion of the tongue or needle  
 25 wire at a position farthest from the free end.

What I claim and desire to secure by Letters Patent of the United States of America, is:—

30 1. A fastening device constructed of a

single piece of spring wire comprising a narrow elongated loop, a widened handle portion formed adjacent the open end of said loop, and a longitudinal clasp member formed from one extension of said handle and extending centrally through said handle portion and said elongated loop, said tongue having a portion lying in the plane of said loop, and another portion extending beyond said loop and out of the plane of said loop, substantially as described.

2. A fastening device constructed of a single piece of spring wire comprising a narrow elongated loop, having extensions thereon bent to form a handle portion of greater width than said loop and adjacent the open end thereof, one of said extensions being locked in said handle portion and the other of said extensions being bent to lie centrally through said handle portion and said loop and in a plane therewith for a portion of its length and being slightly bent to pass beyond the loop, substantially as described.

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

FRITZ RAUPACH.

Witnesses:

H. D. JAMESON,  
 A. NUTTING.