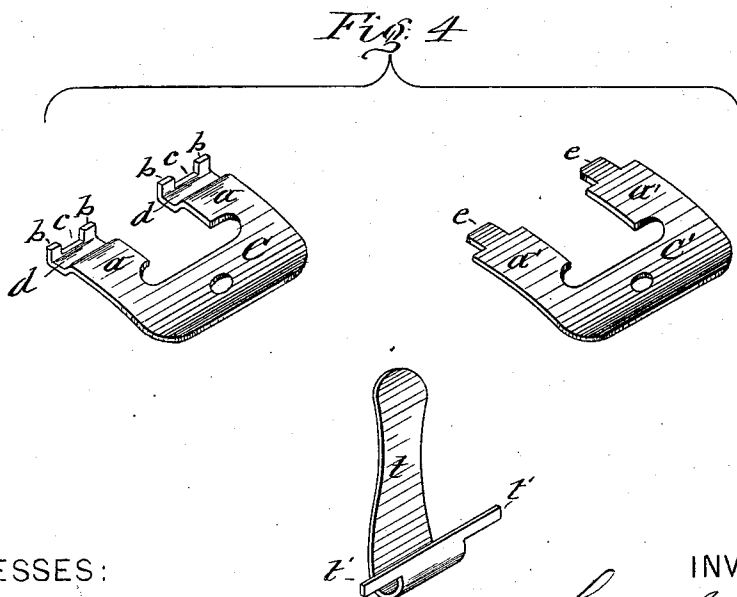
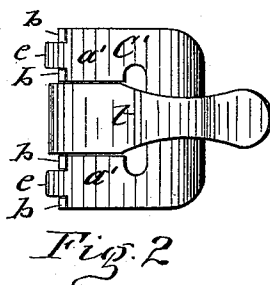
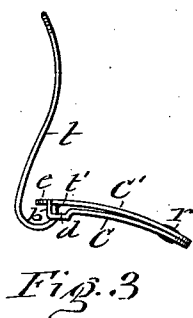


(No Model.)

G. MANGGANG.
SHOE CLASP.

No. 474,914.

Patented May 17, 1892.



WITNESSES:

J. J. Saass
H. M. Seamans

INVENTOR:

George Manggang
By *Snell, Saass & Hall*
his ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE MANGGANG, OF SYRACUSE, NEW YORK, ASSIGNOR TO THE SYRACUSE SPECIALTY MANUFACTURING COMPANY, OF SAME PLACE.

SHOE-CLASP.

SPECIFICATION forming part of Letters Patent No. 474,914, dated May 17, 1892.

Application filed August 1, 1891. Serial No. 401,390. (No model.)

To all whom it may concern:

Be it known that I, GEORGE MANGGANG, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Shoe-Clasps, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to the class of shoe-clasps which are usually applied to arctic overshoes and in which a frame attached to one of the quarters or straps of the shoe is provided with a spring-actuated tongue interlocking with a slotted catch-plate attached to the opposite quarter or strap of the shoe; and the invention has special reference to the species of clasps in which the tongue has rigid pintles of angular form in cross-section serving as cams inserted between the elastic free ends of two plates which are firmly united at their rear ends and constitute the supporting-frame of the tongue; and my present invention consists in an improved construction and combination of parts designed to maintain the two plates of the tongue-supporting frame more securely laterally in their position in relation to each other and also guard more effectually against the disruption of the tongue from said supporting-frame.

The invention is fully illustrated in the annexed drawings, in which—

Figure 1 is a side view of a clasp embodying my improvements. Fig. 2 is a plan view of the same. Fig. 3 is a side view showing the clasp in its open position, and Fig. 4 is a perspective view of the component parts of the clasp in a segregated condition.

Similar letters of reference indicate corresponding parts.

D represents the usual and well-known slotted catch-plate, which is attached to one of the quarters or straps of the shoe and with which interlocks the tongue *t*, connected to a frame attached to the other quarter or strap of the shoe. This frame is formed of two plates *C C'*, usually stamped out of sheet-steel and placed flatwise, one upon the other, and firmly united at their rear or attaching end, preferably by means of a rivet *r*, passing through the plates. One of said plates, preferably the underlying plate *C*, has its free end formed with two arms *a a*, each of which terminates with two fingers *b b*, projecting

upward at right angles from the plane of the plate and with a recess *c* between said fingers, as clearly shown in Fig. 4 of the drawings, and also with a depression *d* immediately back of the fingers *b b*, for the purpose hereinafter explained. The other or overlying plate *C'* has its free end formed with similar arms *a' a'*, terminating with fingers *e e*, extending forward and through the recesses *c c*, and thus restrained from lateral displacement by the fingers *b b*, engaging opposite edges of each finger *e*.

The angular or cam-shaped pintles *t' t'* of the tongue *t* are inserted between the aforesaid arms of the two plates *C C'* immediately back of the fingers *b b*, and are thus seated in the depressions *d d* of the plate *C*, which depressions are only of such a depth as to cause the two plates *C C'* to lie contiguous to each other and bear on the flat sides of the pintles *t' t'* when the clasp is in its closed position, and in opening the clasp the raising of the free end of the tongue *t* from its supporting-frame causes the pintles *t' t'* of said tongue to pry the free ends of the plates *C C'* apart and receive therefrom the requisite spring action, which partially locks the tongue in its open and closed positions.

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

The improved shoe-clasp composed of two plates *C C'*, placed one upon the other and secured to each other at their rear ends, one of said plates having its free end formed with two arms *a a*, each terminating with two fingers *b b*, projecting at an angle from the plane of the plate and with a recess *c* between said fingers, and the other of said plates formed with similar arms *a' a'*, terminating with fingers *e e*, extending forward through the recesses *c c*, in combination with the tongue *t*, having the angular pintles *t' t'* inserted between the aforesaid arms of the two plates immediately back of the fingers *b b*, substantially as described and shown.

In testimony whereof I have hereunto signed my name this 29th day of July, 1891.

GEORGE MANGGANG. [L. S.]

Witnesses:

MARK W. DEWEY,
J. J. LAASS.