M. A. ZIELINSKI.

SHOE CLAMP.

APPLICATION FILED JULY 27, 1917.

1,252,764.

Patented Jan. 8, 1918.

2 SHEETS—SHEET 1.

Fig. 1.

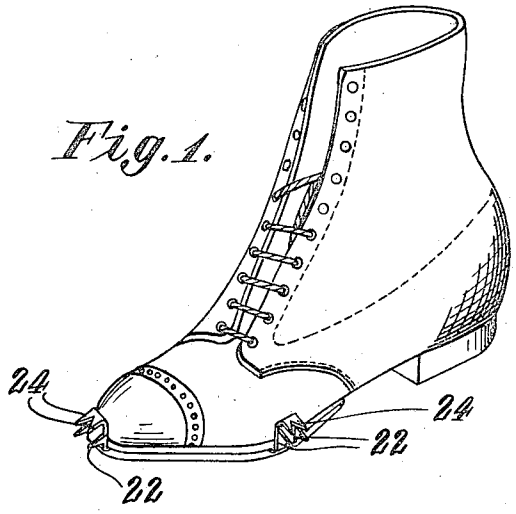


Fig. 2.

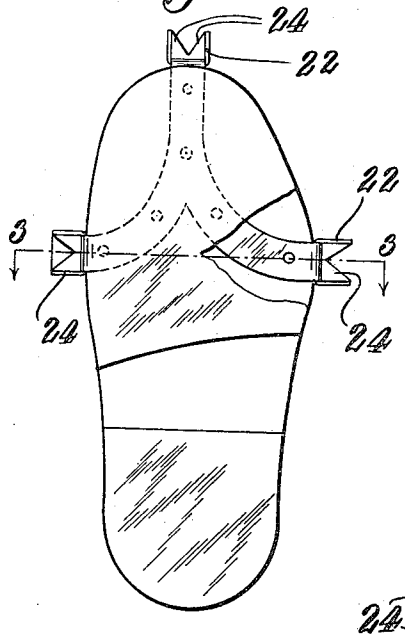


Fig. 3.

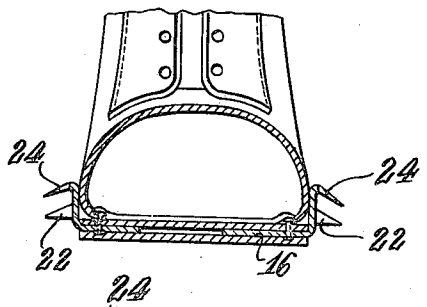
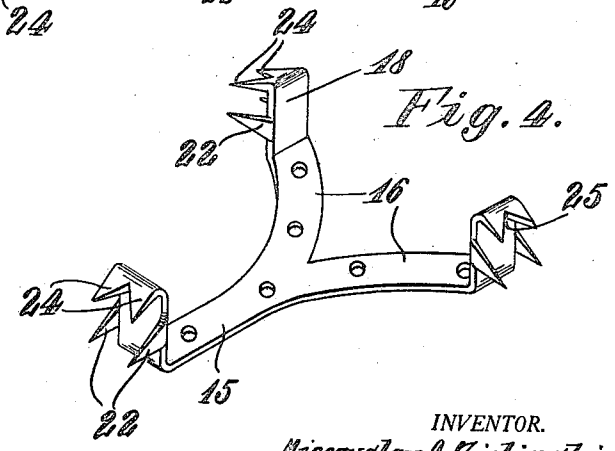


Fig. 4.



INVENTOR.

Mieczyslaw A. Zielinski.

BY

Oscar Guier

HIS ATTORNEY.

M. A. ZIELINSKI.

SHOE CLAMP.

APPLICATION FILED JULY 27, 1917.

1,252,764.

Patented Jan. 8, 1918.

2 SHEETS—SHEET 2.

Fig. 5.

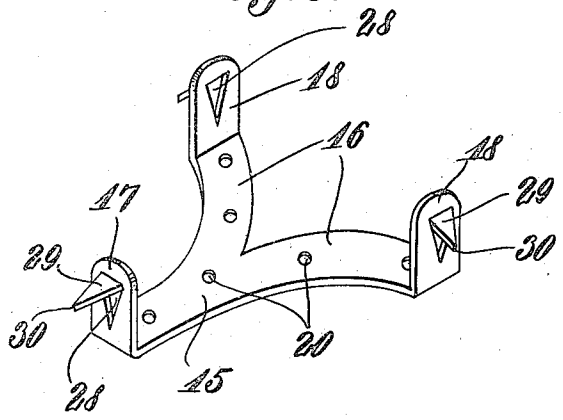


Fig. 6.

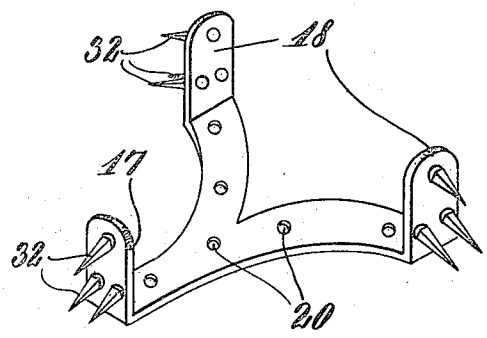


Fig. 7.

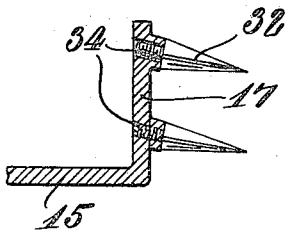


Fig. 8.

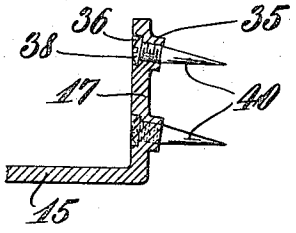


Fig. 9.

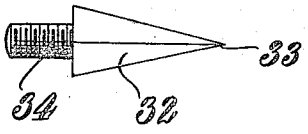
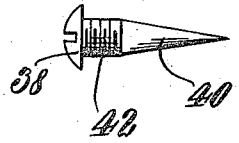


Fig. 10.



INVENTOR.

Mieczyslaw A. Zielinski.

BY

Oscar Geier

HIS ATTORNEY.

UNITED STATES PATENT OFFICE.

MIECZYSLAW A. ZIELINSKI, OF NEW YORK, N. Y.

SHOE-CLAMP.

1,252,764. Specification of Letters Patent. Patented Jan. 8, 1918.

Application filed July 27, 1917. Serial No. 183,093.

To all whom it may concern:

Be it known that I, MIECZYSLAW A. ZIELINSKI, a citizen of Russia, resident of New York, county of New York and State of New York, have invented certain new and useful Improvements in Shoe-Clamps, of which the following is a specification.

This invention relates to improvements in attachments to shoes, worn during climbing operations.

The principal object of the invention is to provide a device which may be permanently applied to shoes of ordinary type, the attachment having sharp prongs adapted to engage with a pole, post, or the like in such manner as to partially sustain the weight of the user.

A further object is to provide such attachments in forms which may be cheaply manufactured, strong and durable in their nature, and which may be readily secured to a shoe.

These and other like objects are attained by the novel construction and combination of parts hereafter described and shown in the accompanying drawings, forming a material part of this disclosure, and in which—

Figure 1 is a perspective view of a shoe indicating the application of the invention.

Fig. 2 is a bottom plan view of the same.

Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a perspective view showing one embodiment of the invention.

Fig. 5 is a similar view showing another embodiment of the invention.

Fig. 6 is a like perspective view showing a third form of construction.

Fig. 7 is an enlarged fragmental sectional view showing a method of attaching the spurs.

Fig. 8 is a similar fragmental sectional view showing a modified form of spur.

Fig. 9 is a side elevational view of the spur indicated in Fig. 7, and

Fig. 10 is like view of the spur as used in Fig. 8.

The invention comprises a triangular plate having a front limb 15, and lateral, rearward extending limbs 16, from the latter of which are angularly turned upright projections 18, adapted to closely engage upon the side of the shoe, while the front upright projection 17 makes contact with the toe of the shoe, as can be best seen in Fig. 1, the plate being firmly engaged between the upper and lower sole of the shoe, by fastening through the perforation 20 made in the plate.

In the form shown in Fig. 4, the side spurs 22 are integrally formed with the projections 17 and 18, the same being bent to extend outward from the shoe in parallel and provided with sharply defined points, as are also the integrally formed upper elements 24, made by bending the projections 18 outwardly in an obvious manner, the points formed by the elements 24 being spaced by reason of an angular cut 25 so as to present four sharp prongs adapted to engage with the surface of the post or pole which is to be climed.

In the form shown in Fig. 5, a V-shaped slit 28 is made in the projections 17 and 18, the material 29 being bent outwardly into sharp points 30, operating in a manner similar to the points 22 and 24 as before described.

In the adaptation shown in Figs. 6 and 7, separate spur elements 32, having rectangular cross-section and pyramidal in contour, terminate in sharp points 33 at their outer ends, their inner ends having screw-threaded points 34, by means of which they may be screwed into the material 17 or 18 of the upstanding projections, it being possible to apply a wrench to the extending body portion of the spurs so as to secure them firmly in the projections.

In Fig. 8, the projections 17 and 18 have outwardly formed bosses or hubs 35, while upon the inner opposite sides are depressed surfaces 36 adapted to receive the heads 38 of conical sharp pointed spurs 40, there being a screw-threaded portion 42 between the head 38 and spurs 40, fitted to be received in threaded openings through the hubs 35, the points 40 being preferably disposed at a small angle downward from a horizontal line, the better to engage with the material to which they may be pressed.

In applying the device to an ordinary pair of shoes, the same are formed to fit the sole of the shoe, applied in position, and a supplementary sole secured upon the outer surface to the main sole of the shoe by stitching, nailing or the like, and finally by securing means passed through the openings 20, thus rendering the climbers a component part of the shoe, and it will be obvious that

the same will greatly facilitate climbing operation.

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

In a climbing device, the combination with a plate, means for attaching said plate to a shoe, between the soles thereof, extensions turned at right angles at the sides and front of said plate, and a plurality of spur elements detachably engaged in said extensions.

In testimony whereof I have affixed by signature.

MIECZYSLAW A. ZIELINSKI.

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