Oct. 6, 1931. J. DUMAS 1,826,511

ICE CREEPER

Filed Oct. 23, 1929

Fig. 1.

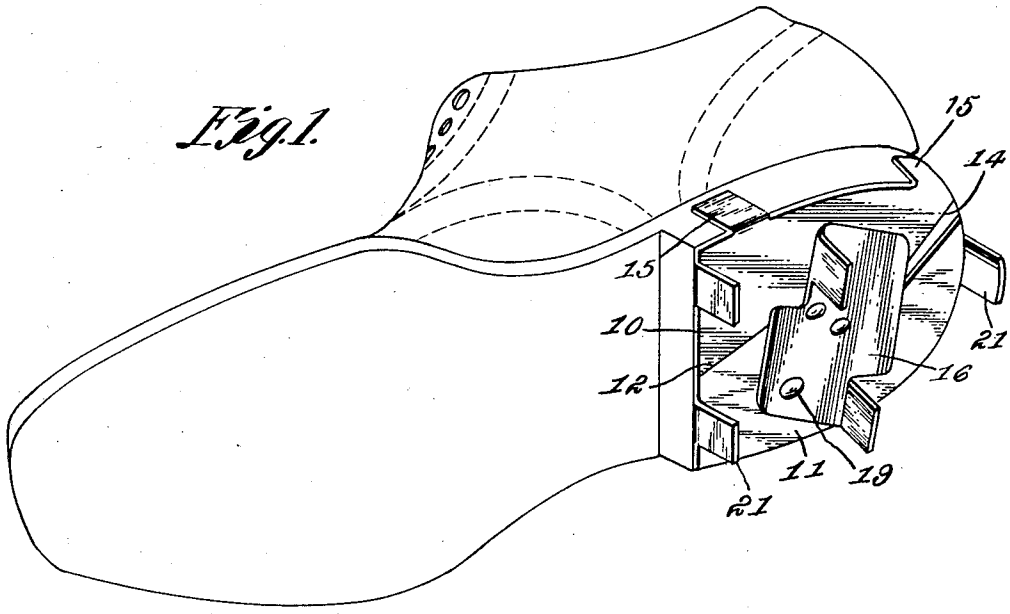


Fig. 2

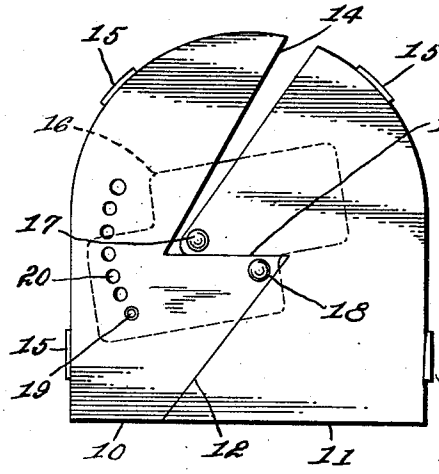
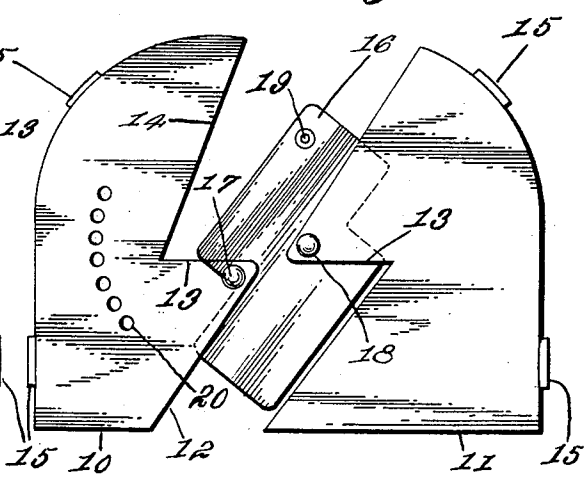


Fig. 3.



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WITNESS

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ICE CREEPER

Application filed October 23, 1929. Serial No. 401,799.

This invention relates to new and useful improvements in ice creepers primarily adapted to be worn upon shoes and the like.

An object of the invention contemplates the provision and arrangement of means whereby the form of creeper may be applied upon a shoe devoid of strap fastenings and without causing any discomforture to the wearer.

Another object of the invention comprehends an adjustment feature by means of which the creeper may be easily and effectively attached to the various forms and sizes of heels.

More specifically stated the creeper body and adjustment are provided with a common form of lock whereby the creeper will be maintained in position for use.

With the above and other objects in view, the invention further consists of the following novel features and details of construction to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is a perspective view of my invention as applied for use.

Figure 2 is a top plan view of the invention in applied position.

Figure 3 is a view similar to Figure 2 with the adjustment and locking mechanism released and the sections of the creeper body spread apart to initially accommodate or release a heel or sole of a shoe, as the case may be.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference characters 10 and 11 respectively indicate the sections or component portions of a sectional creeper body. Said sections when arranged in the positions shown in Figures 1 and 2 of the drawings resemble in outline the configuration of the conventional form of shoe heel. It is obviously apparent that the marginal edges of the sections or portions of the creeper body may be altered in conformity with the angularity of the sole portions of shoes to facilitate an adequate application thereof.

The sections are separated by a cutting line 12 extending obliquely across the longitudinal center of the completed creeper body. This cutting line extends inwardly from the flat side of the creeper body to a point adjacent the center thereof and is then brought into intersecting relation with horizontal shoulder portions 13 extending in a direction contrary to that pursued by the cutting line.

The remaining portion of the inner side edge of the section 10 beyond the shoulder 13 therefor is longitudinally and obliquely disposed, as indicated at 14, from the innermost portion of the shoulder 13 toward and in communication with the rounded rear portion of the immediate section. The section 11 is correspondingly shaped in accordance with the edge 14 of the section 10 but in addition is inclined more severely to establish a space between the latter mentioned edges to facilitate expanding of the shoe heel, if composed of rubber, whereby the device will be adequately retained against displacement. The means for securing the completed body about and upon a shoe heel primarily resides in the provision and arrangement of tabs or ears 15 upstanding at spaced intervals upon the outer marginal edges of the sections and which are brought into direct engagement with the side wall of the shoe heel in the manner shown in Figure 1 of the drawings.

The sections of the creeper body are relatively expanded and contracted, during the contacting releasing actions, through the instrumentality of an elongated plate 16.

Pivot pins 17 and 18, arranged at spaced intervals upon the elongated plate 16 and preferably in the path of a line drawn diagonally between corners of the elongated plate, are also passed through the corners formed between the horizontally disposed shoulders of each of the sections and the second mentioned obliquely inclined innermost edges 14.

A stud 19 carried upon the upper face and adjacent one corner of the elongated plate 16, is adapted for reception within any one of a plurality of openings 20 in the section 10 disposed in the formation of an arc in accordance with the course pursued by the stud during shifting movement of the elongated adjusting plate 16. The stud and aperture con-

nection provides the locking mechanism referred to in the foregoing.

As understood from the illustration of my invention in Figure 1 of the drawings, the sections 10 and 11 as well as the elongated adjusting plate 16 are provided with forms of penetrating elements, indicated as at 21. These elements are designed to penetrate the frozen ground or ice whereby the wearer may not slip and fall and suffer consequent injuries.

The invention is susceptible of various changes in its form, proportions and minor details of construction, and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having thus described the invention, what is claimed is:—

1. An ice creeper comprising a body composed of multiple sections, said sections being separated by series of oblique and horizontally disposed cutting lines, heel engaging portions carried upon the outer portion of each of the sections, and an elongated adjusting plate having pivot pins arranged at spaced intervals in the path of a line drawn diagonally between corners thereof and pivotally connected with portions of the sections immediately adjacent the intersections of the shoulders and obliquely inclined innerside edges.

2. An ice creeper comprising a body composed of multiple sections, said sections being separated by series of oblique and horizontally disposed cutting lines, heel engaging portions carried upon the outer portions of each of the sections, an elongated adjusting plate having pivot pins arranged at spaced intervals in the path of a line drawn diagonally between corners thereof and pivotally connected with portions of the sections immediately adjacent the intersections of the shoulders and obliquely inclined innerside edges, a stud arranged upon the elongated plate, and one of the sections having a multiplicity of openings arranged in the formation of an arc pursuant to the path of movement and to selectively accommodate said stud to facilitate application of the creeper upon the various sizes and shapes of heels.

In testimony whereof I affix my signature.

JOSEPH DUMAS.