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CREEPER ATTACHMENT FOR SHOES

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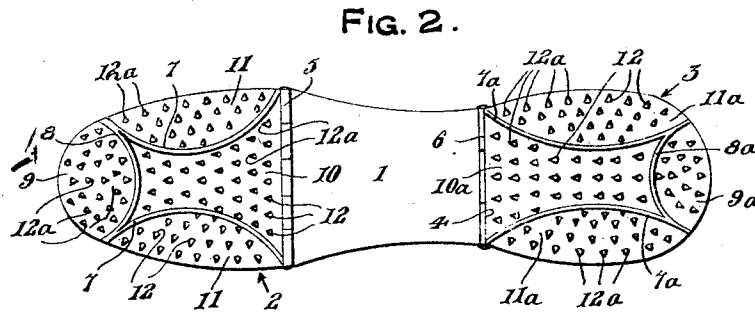
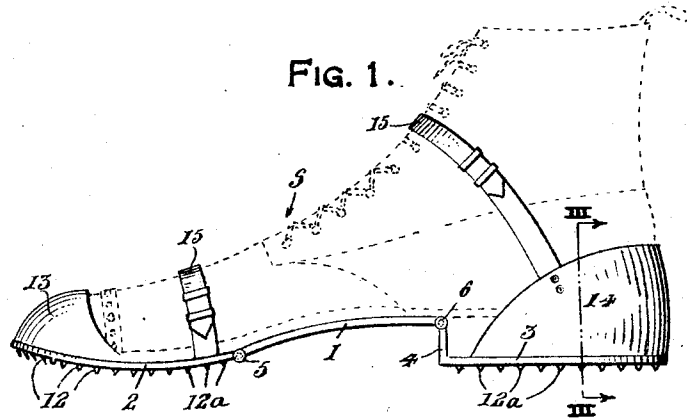
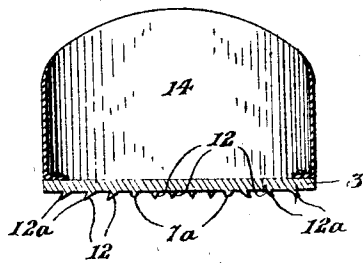
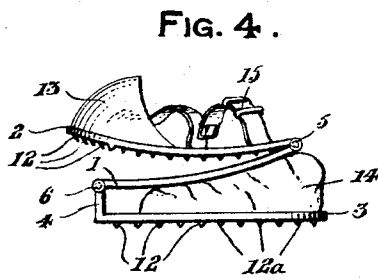


FIG. 3.



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# UNITED STATES PATENT OFFICE.

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## CREEPER ATTACHMENT FOR SHOES.

Application filed January 15, 1925. Serial No. 2,508.

*To all whom it may concern:*

Be it known that we, ANTONIO FEREO and ANTONIO MATIZZA, subjects of the King of Italy, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Creeper Attachments for Shoes, of which the following is a specification.

This invention relates to certain new and useful improvements in creeper attachments for shoes and has for its primary object to provide a creeper attachment in the form of a sandal having ground engaging spurs to be attached to a boot or shoe and especially designed for use by miners, workmen in rolling or steel mills and mountain climbers or the like.

An important object of the invention is to provide a creeper attachment of the above type wherein the ground engaging spurs or prongs depending from the heel and toe sections are arranged in groups separated by depending ribs with the spurs of each group having their pointed ground engaging ends extending in different directions to prevent forward, rearward and lateral slipping during walking movement.

A further object of the invention is to provide a creeper attachment of the above type wherein the heel and toe sections are hingedly connected together by an intermediate inset portion to permit the device to be folded into a compact arrangement for convenient transportation and packing.

With the above general objects in view and others that will appear as the nature of the invention is better understood, the same consists of the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing, wherein like reference characters designate corresponding parts throughout the several views,

Figure 1 is a side elevational view of a creeper attachment for shoes constructed in accordance with the present invention, a shoe being illustrated by dotted lines with the creeper operatively mounted thereon.

Figure 2 is a bottom plan view of the creeper showing the hinged inset portion connecting the shoe and sole portions,

Figure 3 is a vertical cross-sectional view taken on line III—III of Fig. 1, and

Figure 4 is a side elevational view showing the creeper in its folded position.

Referring more in detail to the accompanying drawing, there is illustrated a creeper attachment for shoes that is substantially in the form of a sandal having a bottom plate, preferably formed of metal with an intermediate upwardly arched instep section 1, a sole section 2 and a heel section 3, the forward end of the heel section carrying an upright wall 4 to fit against the forward edge of the shoe heel. The three sections are hingedly connected as at 5 and 6 so that when the attachment is out of use, the same may be folded into a compact arrangement as illustrated in Fig. 4.

Groups of ground engaging spurs separated by depending ribs and pointing in different directions are carried by the lower faces of the sole and heel sections, the sole section 2 carrying a pair of curved depending ribs 7 of the form illustrated in Fig. 2 arranged adjacent each side of the sole section while the toe end thereof is provided with a curved transversely extending rib 8 connected at its ends to the side ribs 7 defining separated areas 9, 10, and side areas 11. Ground engaging spurs 12 depend from the several areas and have their pointed ends 12<sup>a</sup> extending in directions as clearly illustrated. The pointed ends 12<sup>a</sup> in the area 10 are forwardly directed while the pointed ends 12<sup>a</sup> in the area 9 are rearwardly directed, the spurs 12 being outwardly directed in each of the side areas 11 as illustrated.

Curved ribs 7<sup>a</sup> depend from the heel section 3, similar to the ribs 7 carried by the sole section and cooperate with the rib 8<sup>a</sup> at the heel end of the heel section. The spurs 12 depending from the heel section have the pointed ends 12<sup>a</sup> thereof arranged in the several areas 9<sup>a</sup>, 10<sup>a</sup> and 11<sup>a</sup> pointing in directions to prevent slipping movement during walking, the spurs in the sections in the areas 9<sup>a</sup> and 10<sup>a</sup> pointing in opposite directions, while the spurs in the areas 11<sup>a</sup> point outwardly.

A tip 13 and heel counter 14 are carried by the creeper and straps 15 retain the keeper in position upon the shoe S.

In walking, with the creeper in position upon the shoe, the spurs in the rear area 9<sup>a</sup> engage the ground and are subsequently followed by the spurs in the areas 10<sup>a</sup> and 10 to prevent forward slipping movements of the foot while the spurs in the forward area 9 of the sole section prevents rear

slipping of the foot. The spurs in the side areas 11 and 11<sup>a</sup> prevent lateral slipping movement while the ribs carried by the sole and heel sections prove serviceable when the creeper is used for walking upon ice, snow or the like, also, the depending ribs defining the spur areas, terminate inwardly of the pointed ends of the spurs to limit ground-entering movement of the spurs so that hindrance to walking will be prevented.

While there is herein shown and described the preferred embodiment of the present invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What is claimed is:—

1. In a creeper attachment for shoes, a base plate formed of an intermediate instep section and sole and heel sections hinged thereto, means for securing the creeper upon a shoe, sets of ground-engaging spurs depending from the sole and heel sections with the pointed ends of each set extending in different directions to prevent forward, backward and lateral slipping movements, the sets of spurs being outwardly directed at each side of the sole and heel, and forwardly and rearwardly directed at the front and rear ends respectively of the sole and heel

and ribs depending from the sole and heel sections defining areas in which the sets of ground-engaging spurs point in different directions and terminating inwardly of the outer ends of the spurs.

2. In a creeper attachment for shoes, a base plate formed of an intermediate instep section and sole and heel sections hinged thereto, means for securing the creeper upon a shoe, sets of ground-engaging spurs depending from the sole and heel sections with the pointed ends of each set extending in different directions to prevent forward, backward and lateral slipping movement, the sets of spurs being outwardly directed at each side of the sole and heel, and forwardly and rearwardly directed at the front and rear ends, respectively, of the sole and heel and ribs depending from the sole and heel sections defining longitudinally alined separated areas and lateral areas with the sets of ground-engaging spurs in the different areas pointing in different directions and said ribs terminating inwardly of the outer ends of the spurs.

In testimony whereof we affix our signatures.

ANTONIO FEREO.  
ANTONIO MATIZZA.