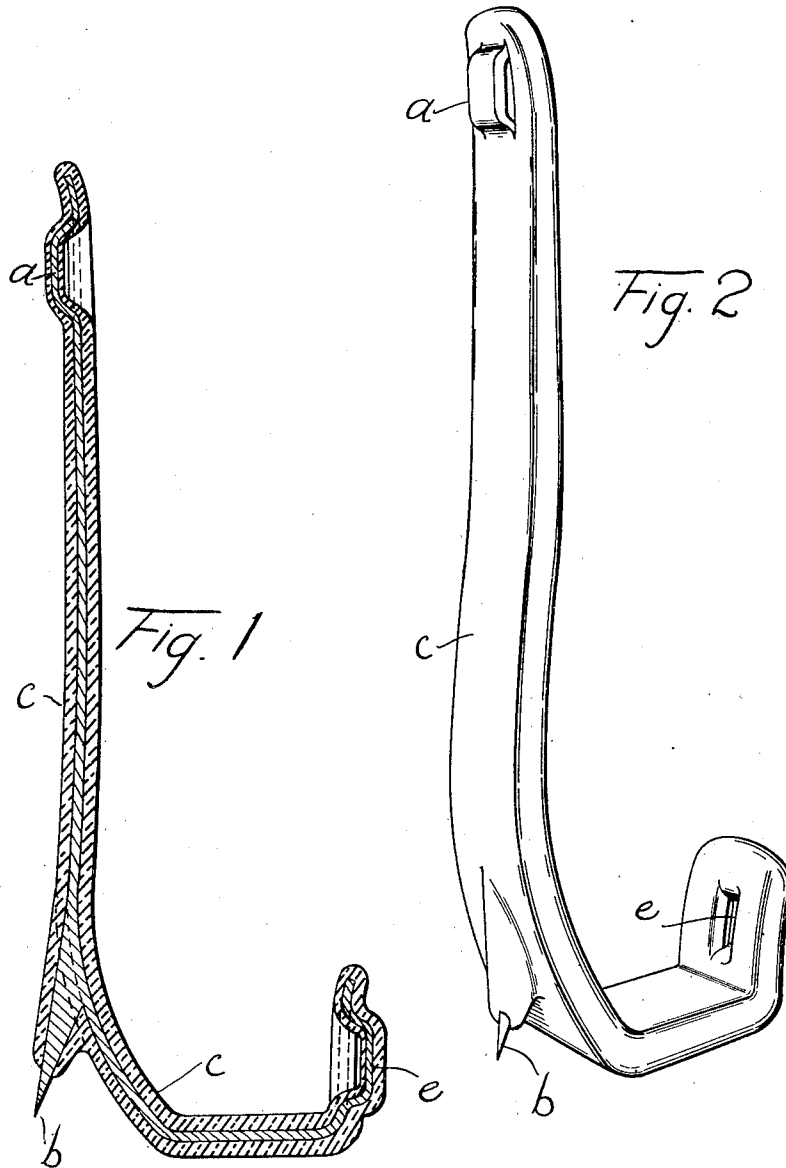


H. E. MARSHALL.  
CLIMBER FOR LINEMEN.  
APPLICATION FILED JAN. 29, 1917.

1,243,436.

Patented Oct. 16, 1917.



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# UNITED STATES PATENT OFFICE.

HARRY E. MARSHALL, OF DETROIT, MICHIGAN.

## CLIMBER FOR LINEMEN.

1,243,436.

Specification of Letters Patent.

Patented Oct. 16, 1917.

Application filed January 29, 1917. Serial No. 145,065.

*To all whom it may concern:*

Be it known that I, HARRY E. MARSHALL, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Climbers for Linemen, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to climbers for linemen and has for its object a climber constructed in such a manner as to be almost completely insulated so as to avoid stray currents which may mean the death of the lineman.

The risk to a lineman through the climbers is probably not as well recognized as it should be. The sides of the climber are very liable to come into contact with a poorly insulated guy wire or even with a live wire and it is very easy to make a perfect conductor through the climber, up through one of the nails in the lineman's shoes, through his bare skin and thence through his body. The sides of the climber are also liable to come in contact with the side of the leg and some source of current.

I avoid these perils by reason of both insulating the strap portion of the climber and also the foot portion of the climber so that the lineman is not in danger by reason of the metal portion of the climbers striking a live wire and is further not in danger by reason of the nails in his shoes contacting the metal of the climber.

In the drawings,—

Figure 1 is a longitudinal section of the climber.

Fig. 2 is a perspective.

The climber may be of any desired construction but I have shown a simple form of climber which comprises a strip which has a vertical run for engaging against the

side of the leg and is provided with a struck-out eye *a* through which the climber straps may be threaded. The bottom of the strip is bent up into a sort of L bottom in the usual way to provide a foot rest having an eye *e* through which the lower strap may be threaded. The usual spur *b* is provided to dig into the wood of the pole.

On the entire climber with the exception of the point of the spur, I provide an insulating coating *c* which is preferably constructed of rubber compound (or what is more commonly known as plain rubber), which is vulcanized to the metal of the climber. Inasmuch as several methods are now known or patented for molecularly attaching rubber to metal either by using a special alloy of metal or electro-plating the metal with an alloy with which the rubber composition can be made to combine during vulcanization, I have not deemed it necessary to specify any particular process.

It will readily be understood that the connecting of the rubber compound with the metal in this way is far superior to merely enveloping the climber with a sack of rubber compound, so to speak, because this could more easily be torn off and endanger the insulating properties of the coating.

What I claim is:

1. A lineman's climber provided with an upright portion, a foot-rest portion, and a spur, and electric insulating material in chemical combination with substantially the entire surface of the upright and foot-rest portions.

2. In a lineman's climber, the combination of a metal upright portion, a foot-rest portion and a spur, and a rubber compound incasing substantially the entire upright portion and foot-rest portion and in chemical combination with the surface of the same.

In testimony whereof, I sign this specification.

HARRY E. MARSHALL.

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