June 14, 1927. 1,632,688

W. ALLAHVERDIAN

LINEMAN'S CLIMBING IRON

Filed May 8, 1926 2 Sheets-Sheet 1

Fig. 1.

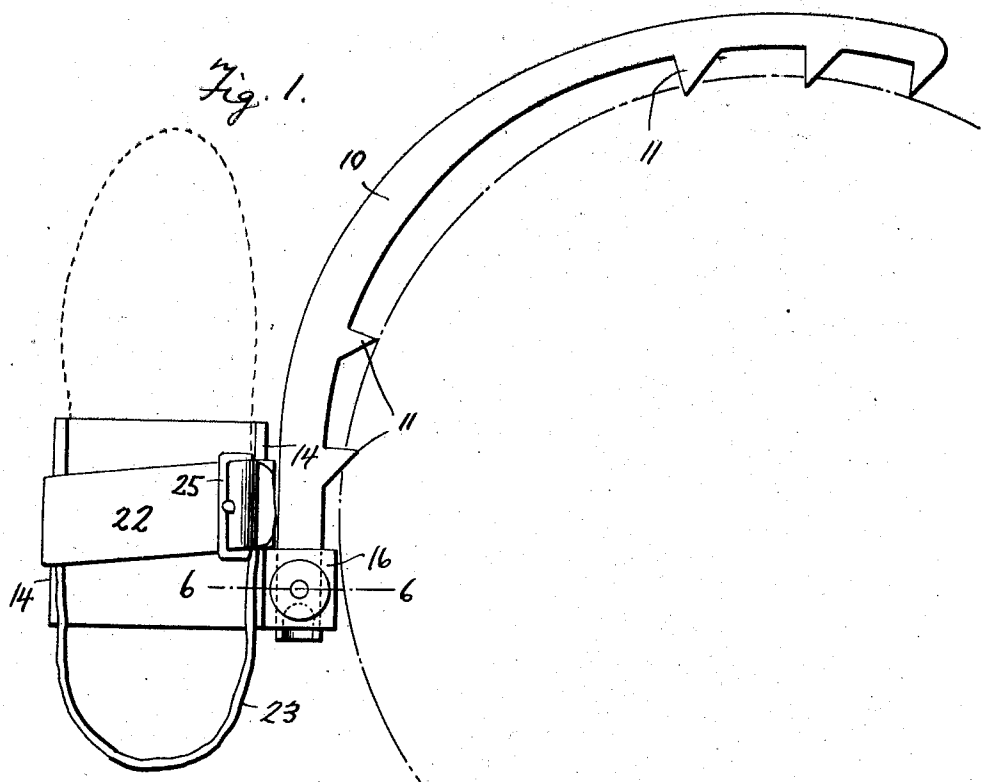
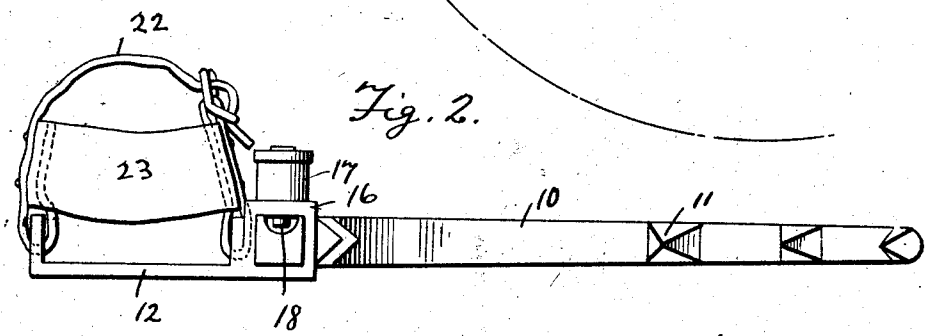


Fig. 2.



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Filed May 8, 1926 2 Sheets-Sheet 2

Fig. 3.

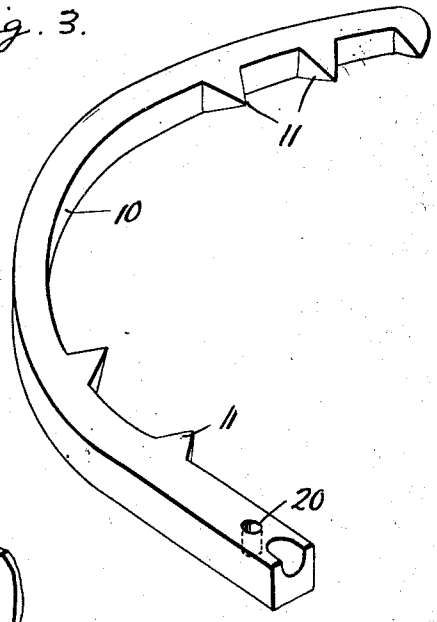


Fig. 6.

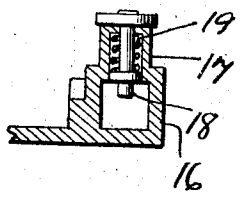


Fig. 5.

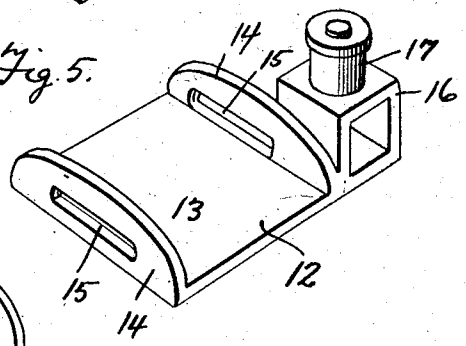
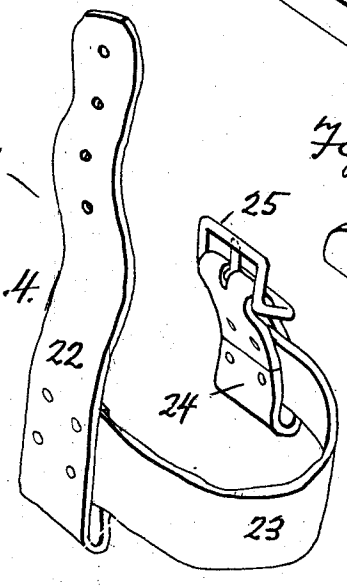


Fig. 4.



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UNITED STATES PATENT OFFICE.

WAGNA ALLAHVERDIAN, OF UTICA, NEW YORK.

LINEMAN'S CLIMBING IRON.

Application filed May 8, 1926. Serial No. 107,783.

This invention relates to tools or accessories intended for use by telephone and telegraph linemen, and has for its object the provision of novel climbing irons by means of which a lineman may readily climb poles for the purpose of making repairs, adjustments or the like.

An important object is the provision of climbing irons which are simple and inexpensive to manufacture, easy to adjust, and which are, moreover, of such construction that the parts thereof may be very readily disassembled for convenience in transportation or storage.

Another object is to provide climbing irons which, when in applied position, will be most positive in their holding action so that there will be no probability or possibility of the user slipping and falling.

Another object is to provide a structure or device of this character which will be simple and inexpensive in manufacture, positive in action, efficient and durable in service, and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the novel construction and arrangement of elements to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which:—

Figure 1 is a plan view of one of the climbing irons.

Figure 2 is a side elevation thereof.

Figure 3 is a detail perspective view.

Figure 4 is a perspective view of the attaching strap member.

Figure 5 is a perspective view of one of the foot or shoe engaging members, and

Figure 6 is a detail in cross section taken on the line 6—6 of Figure 1.

Referring more particularly to the drawings, I have shown each of the climbing iron devices for each foot as comprising a substantially quarter circular bar member 10 formed of iron, steel or other suitable material and provided with a plurality of spurs 11 so shaped and arranged as to be penetratingly engaged within a pole or the like to be climbed by the user. Associated and connected with each of these members is a foot piece 12 which may be conveniently formed as a casting or stamping and which includes the plate portion 13 provided at its ends with flanges 14 slotted at 15 for a purpose to be described. Each of the members 12 further includes a guide element 16, preferably of rectangular shape and so formed as to conformingly engage upon the members 10, this guide device 16 having a housing portion 17 thereon within which is slidably mounted a plunger or pin 18 urged toward the member 10 by a coil spring 19, the member 10 having a recess 20 receiving the pin for the purpose of holding the parts normally in the proper assembled relation.

In order that the device may be attached to the foot of the wearer, use is made of strap devices indicated generally by the numeral 21, each of these including an elongated strap member 22 engaged through one slot 15, and riveted to a horizontally arranged strap member 23 which is, in turn, secured to a strap member 24 looped through the other slot 15. The strap member 24 carries an adjusting buckle 25 by means of which connection may be made about the foot of the user regardless of the size of the foot or the shoe.

In the operation of the device, it will be seen that when the user wishes to apply one of the devices to his foot, the foot piece is engaged with the arcuate member 10 by slidably engaging the housing member 16 thereon, and when the proper position is obtained the spring pressed pin or plunger 18 will engage within the recess or socket 20, thereby holding the foot piece firmly with respect to the arcuate bar. The operator then places his foot upon the member 12 and secures the strap 22 over his instep by means of the buckle 25. It is of course clear that one of the devices is placed on each foot. After the devices are placed in position in this manner and secured as indicated, it is obvious that the lineman or other person thus equipped may easily climb a pole in the well known manner, the prongs or spurs 11 biting into the pole and providing an adequate grip thereon so as to prevent any possibility of slipping or falling. When use of the device is not desired, it is clear that the pin 18 may be retracted by pulling upon the head thereof and the foot piece disassembled with respect to the member 10 so that the parts may be easily stored within a tool box or other receptacle. It is believed that the construction, operation and advantages will be readily apparent to one skilled in the art without further explanation.

While I have shown and described the preferred embodiment of the invention, it

should be understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claim.

Having thus described the invention, I claim:—

In a climbing iron of the character described, an arcuate bar provided at its concaved side with penetrating prongs, and attaching means for said bar comprising a foot piece of plate-like form provided at one end with an upstanding ear and provided in spaced relation to its other end with a similar upstanding ear, said ears being provided with elongated slots, a foot engaging strap structure engaged with the slotted ears, one end of said plate member being prolonged beyond the second named ear and formed to provide a housing slidably receiving one end of said arcuate bar, said end of the bar being formed with a recess and with an inclined notch leading from the end toward said recess, an enlarged guide portion on said housing, a spring located within said enlarged guide portion, and a pin slidably mounted within said enlarged guide portion and normally urged by said spring downwardly for engagement within the recess in said bar, the notch in said bar acting to effect retraction of the pin when the bar is inserted within the housing.

In testimony whereof I affix my signature.

WAGNA ALLAHVERDIAN.