

Aug. 20, 1929.

LA SALLE H. WHITEHEAD

1,725,324

WIRE GRIP

Filed Oct. 16, 1928

FIG. 1.

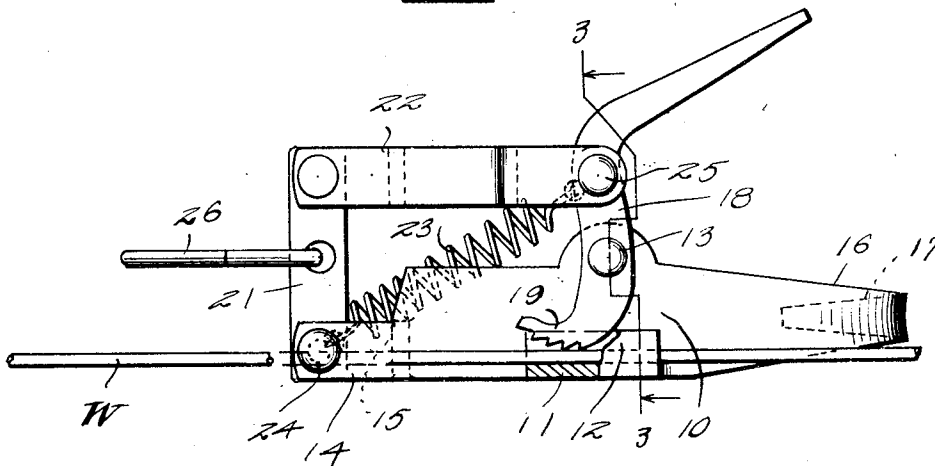


FIG. 2.

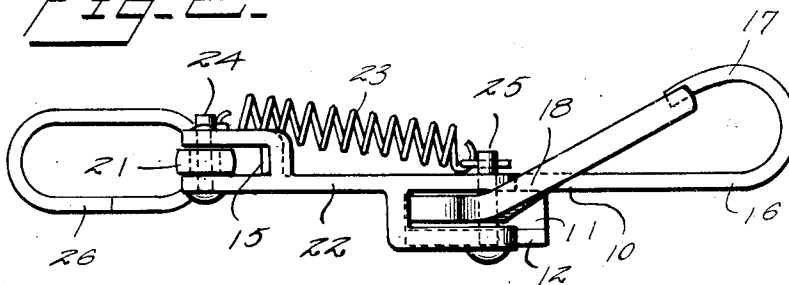
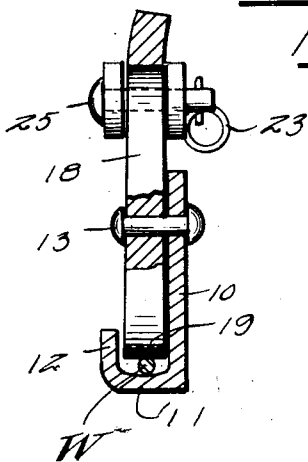


FIG. 3.



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WIRE GRIP.

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This invention relates to a wire grip and more particularly to a device for holding wire while stretching the same.

An important object of the invention is to provide in a device of this character a construction such that all possibility of slippage is eliminated and the wire gripped in a positive and efficient manner.

A further object of the invention is to produce in a structure of this character an arrangement such that a grip may be engaged with the wire without the necessity of placing the hands thereon, thus rendering it much more easily handled when the wire acted upon is barb wire and accordingly difficult to handle.

A still further object of the invention is to provide a structure of this character which, in itself, embodies a means for taking a positive grip on the wire and constantly exercising this grip, so that there is no necessity for holding the grip in engagement with the wire while applying it to the jack or other structure employed in the stretching operation, and in which the construction is such that the pressure applied by the stretching operation acts not only to stretch the wire but likewise to increase the force with which the wire is gripped.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a side elevation of a wire grip constructed in accordance with my invention;

Figure 2 is a plan view thereof;

Figure 3 is a section on the line 3—3 of Figure 1.

Referring now more particularly to the drawings, the numeral 10 generally designates a body having at its central portion at one side thereof a flange 11, the terminal portion of which is reflexed, as at 12, so that it parallels the body 10 and combines therewith to produce a channel, of which the flange forms the bottom wall. Above this channel, a pivot 13 is provided. One end of the plate has a reduced extension 14 formed with a furcation 15 in the same general plane as the plate and the opposite end thereof is formed with a reduced extension 16 bent to provide a hook 17, the bill of which is arranged at the opposite side of

the plate from the flange 11. Mounted upon the pivot 13 is a lever 18 having a foot 19 adapted to extend into the channel and having the face thereof which opposes the flange 11 formed as a cam having teeth 20. At a point spaced above the pivot 13, the lever is bent, so that it angles slightly to that side of the plate at which the bill 17 of the hook is disposed and extends rearwardly over the bill of the hook, so that this end of the lever, which forms the handle and the hook, may be conveniently grasped in the hand to shift the foot of the lever from the channel and permit engagement of a wire therein.

In the furcation 15 is pivoted a second lever 21, the upper end of which is connected by a link 22 to the lever 18 at a point beyond the pivot 13 from the foot 19. A spring 23 disposed at the opposite side of the body 10 from the lever 18 has its ends connected to the pivots 24 and 25, mounting the lever 21 in the furcation and connecting the link 22 to the lever 18 respectively, and acts at once as a means for constantly urging the foot 19 of the lever into engagement with the upper surface of the flange 11 and as a means for preventing displacement of the pivots 24 and 25. To the lever 21 is secured an element, such as a link 26, by means of which the lever 21 may be connected to a jack or other means for applying strain to the wire held in the grip. It will be obvious that any strain placed upon this lever will be transmitted by the link 22 to the lever 18 and serve to force the foot 19 more firmly into engagement with wire W disposed between the flange 11 and the foot 19, thus increasing the grip upon the wire in proportion to the pull.

Since the construction hereinbefore set forth is capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

1. A wire grip for use with wire stretching apparatus comprising a body having a flange combining therewith to produce a channel at one side face thereof, a lever pivoted upon said side face and having a foot swingable into and out of the channel and having the face thereof opposing the base of the channel provided with gripping

teeth, a spring constantly urging the foot of the lever into the channel, and means for connecting a jack or the like to said body including connections transmitting a portion
5 of the force applied to shift the body to said lever to urge the same in a direction forcing the foot toward the bottom of the channel.

2. A wire grip for use with wire stretching apparatus comprising a body having a
10 flange combining therewith to produce a channel at one side face thereof, a lever pivoted upon said side face and having a foot swingable into and out of the channel
15 and having the face thereof opposing the base of the channel provided with gripping teeth, a second lever pivoted to one end of the body, a link connecting said second lever and the first named lever beyond the pivot
20 of the first named lever from the foot, and means for connecting said second lever to a jack or the like.

3. A wire grip for use with wire stretching apparatus comprising a body having a
25 flange combining therewith to produce a channel at one side face thereof, a lever pivoted upon said side face and having a foot swingable into and out of the channel and having the face thereof opposing the
30 base of the channel provided with gripping teeth, a second lever pivoted to one end of the body, a link connecting said second lever and the first named lever beyond the pivot of the first named lever from the foot, means
35 for connecting said second lever to a jack or the like, and a spring extending between the

pivot connecting said second lever to the body and the pivot connecting said link to the first named lever.

4. A wire grip for use with wire stretching apparatus comprising a body having a
40 flange combining therewith to produce a channel at one side face thereof, a lever pivoted upon said side face and having a foot swingable into and out of the channel
45 and having the face thereof opposing the base of the channel provided with gripping teeth, a spring constantly urging said foot into the channel, and means for connecting said body to a jack or the like having connections with said lever applying a portion
50 of the strain applied to the body to force the foot of said lever into the channel.

5. A wire grip for use with wire stretching apparatus comprising a body having an
55 outwardly projecting seat at one side face thereof, a lever pivoted upon said side face and having a foot swingable into and out of engagement with said seat and having the face thereof opposing the seat provided with
60 gripping teeth, a spring constantly urging the foot of the lever into engagement with the seat, and means for connecting a jack or the like to said body including connections transmitting a portion of the force applied
65 to shift the body to said lever to urge the same in a direction forcing the foot toward the seat.

In testimony whereof I hereunto affix my signature.

LA SALLE H. WHITEHEAD.