F. W. SCHUMACHER.

WIRE STRETCHER ATTACHMENT.

APPLICATION FILED JUNE 7, 1919.

1,333,097. Patented Mar. 9, 1920.

Fig. 1.

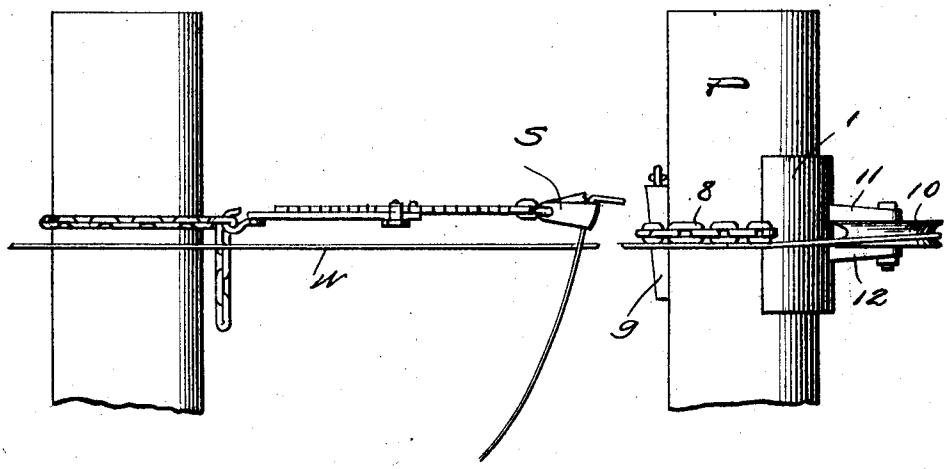


Fig. 2.

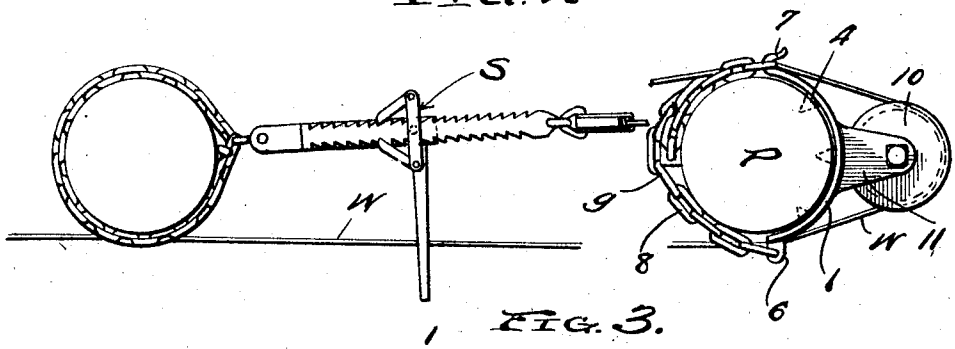
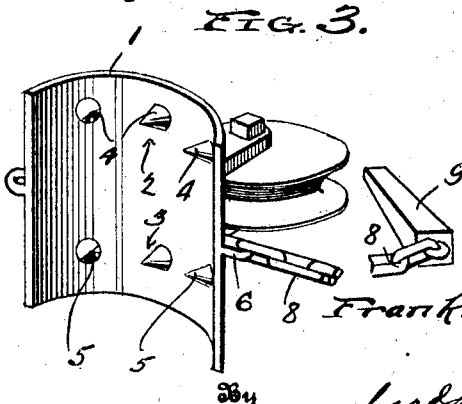


Fig. 3.



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WIRE-STRETCHER ATTACHMENT.

1,333,097. Specification of Letters Patent. Patented Mar. 9, 1920.

Application filed June 7, 1919. Serial No. 302,623.

To all whom it may concern:

Be it known that I, FRANK W. SCHUMACHER, a citizen of the United States, residing at Shawano, in the county of Shawano and State of Wisconsin, have invented certain new and useful Improvements in Wire-Stretcher Attachments, of which the following is a specification.

This invention relates to wire stretchers, and more particularly to attaching means therefor.

The object of the invention is to provide efficient attaching means for connecting a wire stretcher to a round support.

Another object is to so construct such a device that it may be used effectively on posts of varying sizes.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 represents a side elevation of the device constituting this invention shown applied,

Fig. 2 is a top plan view thereof, and

Fig. 3 is in enlarged detail perspective view of the attachment detached.

The attachment constituting this invention comprises a curved plate 1 having two series of penetrating elements 2 and 3 on its inner face, said elements being shown in the form of spurs, and those of one series being in circumferential alinement with each other and longitudinally alined with those of the other series, the spurs of series 2 being numbered 4, and three of which are shown, three similar spurs 5 being shown in series 3, (see Fig. 3).

An apertured ear 6 extends from one side edge of the plate 1 preferably midway its ends, and in a plane between the series of spurs 2 and 3. A hook 7 projects from the other side edge of plate 1 at a point opposite the ear 6 and is designed to detachably engage one of the links of a chain 8 which is permanently secured at one end to the apertured ear 6. This chain 8 is designed to pass around one side of the post P opposed to that on which the plate 1 is arranged, as is shown clearly in Fig. 2, and when it has been linked with the hook 7 a wedge 9 carried by the free end of the chain 8 may be forced between the chain and the post to clampingly engage plate 1 with the post and to cause the spurs on its inner face to penetrate the post as is shown clearly in Fig. 2.

A peripherally grooved pulley 10 is rotatably mounted between two bracket arms 11 and 12 which project laterally from the outer face of plate 1. This pulley 10 is designed to receive the wire W to be stretched, a portion of which is engaged with a stretcher S of any suitable construction.

By arranging the spurs 4 and 5 on the curved inner face of plate 1, this attaching device may be used in connection with round posts of varying sizes, for instance, if the casting or plate 1 is constructed to fit snugly around a six and a half inch post, all six of the points 4 and 5 will contact with the post at the same time, and will penetrate the body thereof when pressure is brought to bear on the stretcher. Now, if this same casting be used on a five inch post, the center spurs 4 and 5 will penetrate the post while the spurs on opposite sides thereof, will simply contact therewith and operate as steadying devices. Should this same plate be applied to a seven inch post, the end spurs of the series will be forced into the post until the center spurs contact with it, and they operate as steadying means when so used. It will thus be seen that a single casting may be used on round posts, varying from five to eight inches in diameter, more or less.

In using this device, the wire W is run along one side of the fence to which it is to be secured and is passed around the pulley 10 to the wire stretcher S on the other side of the post P, and this stretcher is then actuated in the ordinary manner to tighten the wire.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains and while I have described the principle of operation of the invention together with the device which I

now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made as are within the scope of the claimed invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. An attachment of the class described comprising a curved plate having longitudinally spaced circumferentially arranged series of penetrating elements on its inner face, those in one series being in circumferential alinement with each other and in longitudinal alinement with those of the other series, and means for connection with a chain carried by the side edges of said plate at points between the series of penetrating elements so that pressure brought to bear by said chain will uniformly force said elements into operative position.

2. An attachment of the class described comprising a circumferentially curved plate having longitudinally spaced circumferential series of spurs on its inner face, a chain connected with one side edge of said plate at a point between said series of spurs and detachably engaged with the other side edge, and a wire receiving pulley mounted on the outer face of said plate at the center thereof.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK W. SCHUMACHER.

Witnesses:
WALTER W. SCHUMACHER,
HERMAN HELLER.