Feb. 5, 1924. 1,482,745

G. A. HEID

POLE SETTING DEVICE

Filed Jan. 22, 1923

Fig. I.

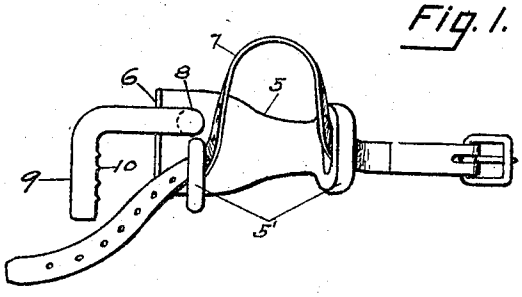


Fig. II.

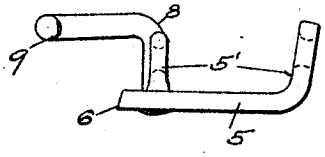


Fig. III.

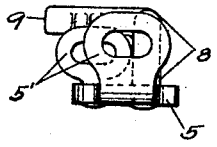
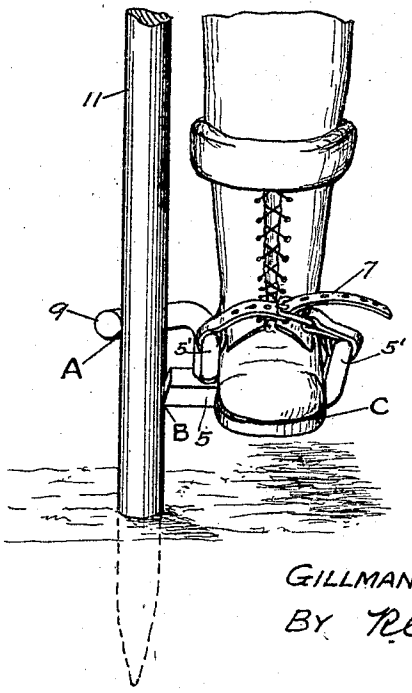


Fig. IV.



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UNITED STATES PATENT OFFICE.

GILLMANN ALBERT HEID, OF GOBLE, OREGON.

POLE-SETTING DEVICE.

Application filed January 22, 1923. Serial No. 614,170.

To all whom it may concern:

Be it known that I, GILLMANN ALBERT HEID, a citizen of the Republic of Germany, residing at Goble, in the county of Columbia and State of Oregon, have invented a new and useful Improvement in Pole-Setting Devices, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to stake-driving devices as a class.

The object of my invention is to provide a device particularly adapted to set poles for bean or other climbing vines, for which poles are usually placed adjacent, although it may be used to set poles or stakes in the soil for any purpose desired. It is further intended to provide a device of this kind adapted to be secured to the human foot, and, when in such position, to enable the operator to clamp or grip the pole with the apparatus and with the foot to force the pole into the soil. These objects, as well as other advantages, I attain by the construction, combination and arrangement of parts illustrated in the accompanying drawings which form a part hereof.

Fig. I is a top plan view of the device.

Fig. II is a side elevation of same with securing strap omitted.

Fig. III is an end elevation of like view as in Fig. II.

Fig. IV is a perspective view of the device secured upon a human foot, and gripping a pole or stake in operative position.

Like characters refer to like parts in the views.

A stirrup 5 is provided, with two integral and vertical strap-eye posts 5′ thereon, spaced apart sufficiently to receive between same the shoe upon a human foot. The stirrup is then secured to the foot as shown in Fig. IV by a strap 7. An integral gripper 8 extends upwardly from a position near the adjacent edge 6 of the stirrup 5, thence outwardly, at an angle horizontally, a convenient distance beyond said stirrup edge 6, thence at right angle and horizontally a suitable distance parallel with said edge 6. The outer or gripping arm 9 of the gripper 8 may be provided with an inner rough or serrated surface, as at 10, to aid in the gripping or clutching. In Fig. IV a stake or pole 11 is shown gripped by the device.

It will now be seen that the operator, having the apparatus secured to his foot as illustrated, places a pole 11 upon the soil in vertical position. He then adjusts the gripper upon the pole by movements of the foot carrying the stirrup, so that the edge 6 engages the near surface of the stake and the gripper arm 9 engages the pole above this position on its opposite surface. When thus arranged the apparatus is practically a lever, the fulcrum being at A, the weight at B and the power at C. The operator then throws his weight or power downwardly upon the stirrup, which has a firm grip on the pole, and the latter is forced or driven into the soil to a depth desired. The apparatus is then released from the pole by suitable movements of the foot. The strap-eye posts also supply a means to prevent the foot from slipping endwise and off the stirrup. It will further be seen that the operation is extremely simple and effective. The apparatus can be caused to grip a pole and to be released therefrom with great facility and speed, thus enabling an operator to set a large number of poles in far shorter time than by all other previous known methods of accomplishing the same thing. This has been clearly and completely demonstrated by the use and operation of this pole-setter in actual practice. The device is new and useful, particularly in agricultural work, and may be adapted to set stakes or poles in like manner in other occupations and places where necessary or desirable. The apparatus is also cheaply constructed and likewise durable and inexpensive in its operation, making it very economical in every way.

I claim—

1. A pole-setting device comprising a stirrup having thereon integral vertical members positioned apart to receive and retain the human foot between them, also having an integral double angled gripper near one end, the outer free arm of said gripper extending above and parallel with the opposing stirrup end for a suitable distance to allow a pole to be engaged between said end and gripper arm.

2. A pole-setting device comprising a stirrup having thereon integral vertical members positioned apart to receive and retain the human foot between them, also having an integral double angled gripper near one end, the outer free arm of said gripper extending above and parallel with

the opposing stirrup end for a suitable distance to allow a pole to be engaged between said end and gripper arm, the said arm being inwardly rough or serrated to aid in securing and retaining a fulcrum grip on a pole.

3. In a pole-setting device the combination of, a stirrup having thereon integral vertical members positioned apart to receive and retain the human foot between them, also having an integral double angled gripper near one end, the outer free arm of said gripper extending above and parallel with the opposing stirrup end for a suitable distance to allow a pole to be engaged between said end and gripper arm and means to secure said device to the foot in a manner to allow same to be operated by the foot.

GILLMANN ALBERT HEID.

Witnesses:

HERBERT A. COOKE,

LEONA AEBY.