H. E. ATCHISON.

CLAMP FOR ANGLE IRON POSTS AND THE LIKE.

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1,125,436. Patented Jan. 19, 1915.

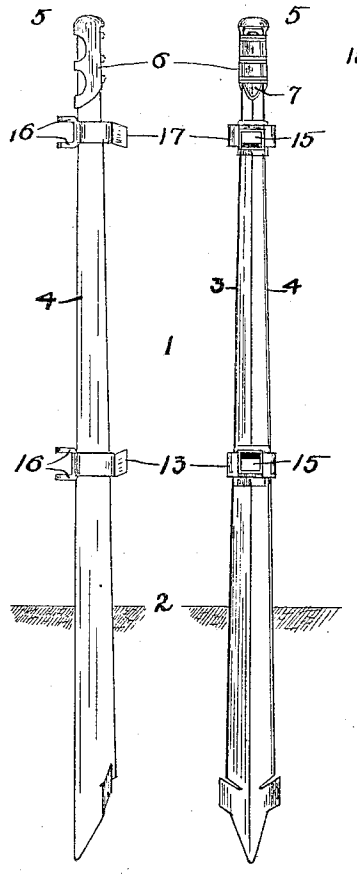


Fig. 1

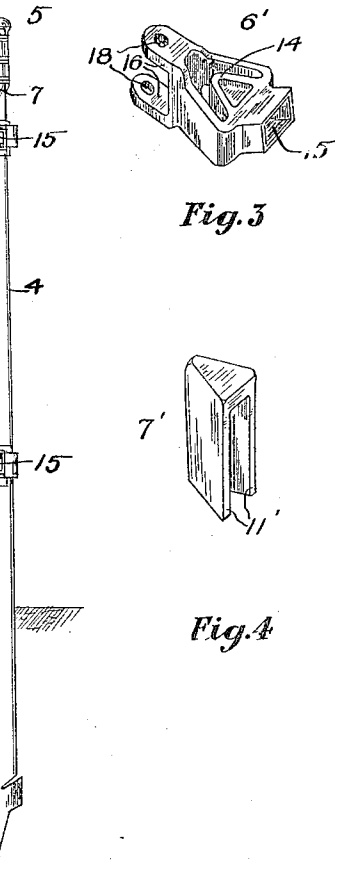


Fig. 2

Fig. 3

Fig. 4

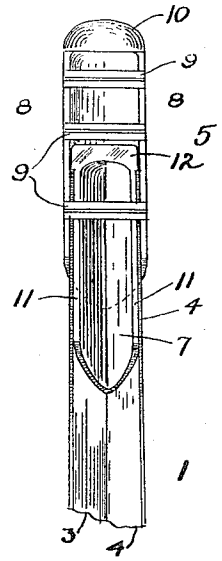


Fig. 5

Witnesses.

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CLAMP FOR ANGLE-IRON POSTS AND THE LIKE.

1,125,436. Specification of Letters Patent. Patented Jan. 19, 1915.

Application filed August 4, 1913. Serial No. 782,922.

To all whom it may concern:

Be it known that I, HERBERT E. ATCHISON, a subject of Great Britain, and a citizen of the Dominion of Canada, residing at Lincoln, in the county of Lancaster and State of Nebraska, United States of America, have invented certain new and useful Improvements in Clamps for Angle-Iron Posts and the like, and have described the same in the following specification, illustrated by the accompanying drawings.

The class of angle-iron posts and the like which are intended by these terms in the above title of my invention, includes every metallic post or pole which has the general form of angle iron and is erected for use by planting the point or foot of the same in the ground. This class accordingly includes angular fence posts and all those typical posts which are the subject of Letters Patent No. 13,202, which were reissued to me February 14, 1911, for telegraph and telephone posts.

The present invention relates to means for engaging a post of this class either for the temporary purpose of protecting the top of the post while its point is being driven into the earth or for the permanent purpose of attaching to the post a brace, a guy, a swinging gate, or any other desired object either movable or stationary.

It is the object of the invention to apply to the post a means of attachment which is easily and firmly securable thereto at any desired height above the ground, and easily detachable therefrom; to prevent the top of the post from becoming bruised, battered, bent or buckled, by blows or pressure administered from above by a sledge or other means for the purpose of driving the point of the post into the soil; and in general to provide the post with superior means for transmitting to the post the power by which it may be driven into the ground, and with superior means for attaching to the post all necessary guys, gates, braces, etc.

To accomplish these objects I incorporate in my improved clamp an angular sleeve engaging the outside of the post, and an angular core, or key, engaging the inside of the post and of the sleeve.

In the accompanying drawings, which illustrate the best manner in which I have contemplated applying the principle of my invention, Figure 1 is a side elevation of an angle-iron post which is provided with three clamps constructed in accordance with these principles. Fig. 2 is a rear elevation of the same. Figs. 3 and 4 are details in perspective. Fig. 5 is a rear elevation of a partly assembled structure similar to Figs. 1 and 2.

In Figs. 1 and 2 the post 1 occupies an upright vertical position partly above and partly below the surface of the ground 2, and comprises the integrally united side plates 3 and 4, forming an angle with each other and severally tapering from the bottom to the top. The clamp 5 on the top of this post, comprises the sleeve 6 and the key 7, which are best seen in Fig. 5. This sleeve has duplicate side plates 8 forming an angel with each other and integrally united at the front of the sleeve; it has also one or more bars 9, or cross connections, uniting these plates at their separated edges behind. Being triangular in cross section, and preferably tapering slightly from bottom to top internally, and being provided at the top with the integral cap 10, this sleeve fits slidingly over the top of the post and of the key 7. This key, being trough-shaped has duplicate side plates 11 integrally united at one edge, and preferably is slightly tapering externally to fit into the top of the post. It is closed at the top by an integral cap 12 projecting slightly beyond the sides of the key and fitting within the sleeve 6. This key is fitted to be inserted in the top of the post and to move downward therein till stopped by the contact of the cap 12 with the top of the post in the position shown in Fig. 5. After the key has been placed in the position last indicated, and after the cap 10 has been pushed down into contact with the cap 7, the post is operatively driven into the ground, as shown in Figs. 1 and 2, by successive blows delivered upon the top of the cap 10 and transmitted to the post by the cap 7.

The clamp 13 on the post 1, similarly comprises the sleeve 6′ and the key 7′, which are shown separately in Figs. 3 and 4 respectively. This key differs from the above described key 7 in having no part corresponding to the projecting portion of the cap 12, and in having no abutment against the end of the post for the purpose of driving the latter into the ground. The sleeve 6′ differs from the above described sleeve 6

in having no part corresponding to the described cap 10. Internally it has a central tongue 14 for contact with the inside of the key, and is adapted to encircle the post and the interposed key in the position shown. By driving the key down in the position indicated the clamp is wedged to the post at any desired elevation above the ground. Externally the sleeve 6′ is provided with a socket 15 to accommodate one end of a brace, not shown in the drawings and with a bracket 16 for other purposes of attachment.

The clamp 17 is a duplicate of the clamp 13 in an inverted position, and can be advantageously used in connection therewith for the support of a swinging gate having hinge pins occupying the holes 18 in the bracket 16.

I claim as my invention—

1. A clamp for a tapering post of the specified class, comprising a sleeve which is slidingly adjustable thereon and has an inwardly directed tongue extending into the interior of the post, in combination with a trough-shaped key wedged between the outside of the tongue and the inside of the post.

2. A clamp for a post of the specified class, comprising a sleeve which is adjustable thereon and has an inwardly directed tongue extending into the middle of the post, in combination with a trough-shaped key fitted internally to the outside of the tongue, and externally to the inside of the post.

3. A clamp for a post of the specified class, comprising a sleeve slidable on the post and having a terminal cap, in combination with a key slidable endwise in the post and having a cap jutting over the top of the post within the sleeve.

4. A clamp for an angle-iron post, comprising an angular tapering sleeve which is slidable on the post, and a tapering key which is slidable endwise in the post and has a stop engagement therewith.

5. A clamp for an angle-iron post or the like, comprising an angular tapering sleeve which is slidable on the post and has a terminal cap, in combination with an angular tapering key which is slidable endwise in the post and has a stop cap outside the post and in the path of the terminal cap.

In testimony whereof I subscribe my name hereto in the presence of two witnesses.

HERBERT E. ATCHISON.

Witnesses:
L. W. CRANSTON,
M. E. ATCHISON.

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