W. H. FRIDLEY.

GATE POST.

APPLICATION FILED MAY 17, 1916.

1,234,893. Patented July 31, 1917.

Fig. 1.

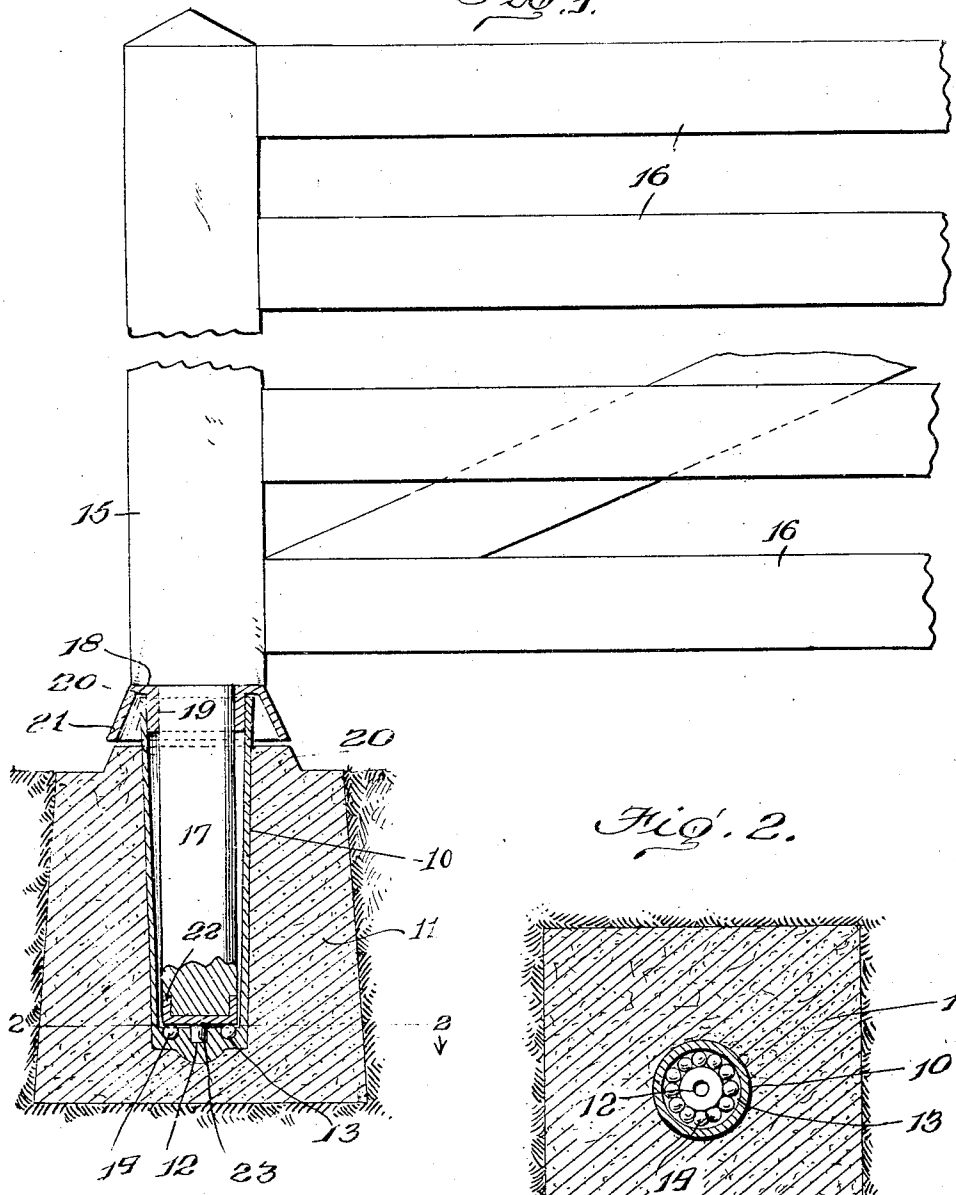


Fig. 2.

Inventor

W. H. Fridley

By

Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM H. FRIDLEY, OF ANNA, OHIO.

GATE-POST.

1,234,893. Specification of Letters Patent. Patented July 31, 1917.

Application filed May 17, 1916. Serial No. 98,175.

To all whom it may concern:

Be it known that I, WILLIAM H. FRIDLEY, a citizen of the United States, residing at Anna, in the county of Shelby and State of Ohio, have invented certain new and useful Improvements in Gate-Posts, of which the following is a specification.

This invention relates to improvements in gates, more particularly to the larger class of farm gates, and has for one of its objects to provide a simply constructed support for the gate whereby the necessity for providing a hinge post is obviated.

Another object of the invention is to provide a simply constructed device whereby the gate may be readily removed without detaching any of the parts.

Another object of the invention is to provide a simply constructed support for a gate wherein provision is made for protecting the operating parts from moisture or the influence of snow and ice.

With these and other objects in view, the invention consists in certain novel features of construction, as hereinafter shown and described and then specifically pointed out in the claims; and in the drawings illustrative of the preferred embodiment of the invention—

Figure 1 is a side elevation of a portion of a gate and the mechanism for swingingly mounting the same, the latter being in section;

Fig. 2 is a transverse section on the line 2—2 of Fig. 1.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved device embraces a socket member 10, preferably tapering toward the lower end and embedded in a suitable support, preferably a block of concrete, indicated conventionally at 11. The lower end of the socket member 10 is preferably increased in thickness and provided with a central step socket 12 and an annular channel or run-way 13 to receive a plurality of bearing balls 14.

The gate includes a relatively heavy post 15 to which the bars or rails, portions of which are shown at 16, are attached. The post and the rails may be of any suitable size, of any suitable material, but for the purpose of illustration an ordinary wood post having the usual wood rails is shown, but it is not desired to limit the invention to any specific form of post or gate structure.

At its lower end the post 15 is reduced, as shown at 17, whereby a shoulder 18 is produced at the juncture of the post proper and the reduced portion 17. The reduced portion 17 of the post is circular in outline and surrounded at its upper end by a sleeve 19 which forms a lateral bearing between the socket 10 and the post. The sleeve 19 is formed with a lateral flange 20 at its upper end which engages the shoulder 18 and an outwardly and downwardly flaring flange 21. The sleeve 19 and the flanges 20—21 form a support or guard for the upper end of the reduced portion 17 of the post and likewise provides an annular channel or recess into which the upper end of the socket member 10 fits, as shown in Fig. 1. The concrete base 11 is provided at its upper end with an upwardly directed projection 22 which fills the gap between the lower edge of the flange 21 and the upper body portion of the base and thus coacts with the outwardly and downwardly flaring flange 21 to form a water shed to carry the water away from the socket member. The juncture of the flanges 20—21 corresponds in outline substantially to the outline of the body portion 15 of the post, the inclined flange forming a continuation of the post and operating to shed water which may flow down over the post and to conduct it outwardly away from the socket portion. At its lower end the reduced portion 17 is provided with a supporting cap or foot member 22 which engages over the lower end of the portion 17 of the post and is provided with a pin 23 to engage in the step cavity 12. The balls 14 project above the upper surface of the bottom of the socket 10 and are engaged by the lower face of the member 22. By this means an anti-friction support is produced for the post.

By this simple means the post 15 is firmly supported from lateral displacement and firmly supports the gate from sagging, while at the same time the post is free to rotate upon its anti-friction step when the gate is operated.

The socket 10, the bearing 19, and the flanges 20—21 are constructed from metal, while the post 15, as before stated, may be of any suitable material.

Having thus described the invention, what is claimed as new is:

1. A device for the purpose set forth comprising an anchored socket having a stepped socket in its lower end, and anti-friction devices disposed around said stepped socket, a post having a circular lower end fitting within the socket to rotate freely therein and having a depending pin at its lower extremity to engage the stepped socket, said lower extremity resting on the anti-friction devices, and a bearing sleeve fitted around the circular portion of the post and within the upper end of the socket, said bearing sleeve having an outwardly projecting flange extending over the upper end of the socket, and a downwardly flared annular flange surrounding the upper end of the anchored socket.

2. A device for the purpose set forth comprising an anchored socket, a post having a circular lower end fitting within the socket and rotatable freely therein, the post being constructed with an annular shoulder adapted to extend over the upper edge of the socket, and a bearing sleeve fitted around the circular portion of the post and within the upper end of the socket and having a radial annular flange bearing against the annular shoulder on the post and projecting across the upper edge of the socket, and a downwardly flared annular flange depending from the outer edge of the said radial annular flange and surrounding the upper end of the socket.

In testimony whereof I affix my signature.

WILLIAM H. FRIDLEY. [L. S.]

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