A. S. HARRELL & O. C. SPENCE.

HINGE.

APPLICATION FILED MAR. 16, 1918.

1,278,642. Patented Sept. 10, 1918.

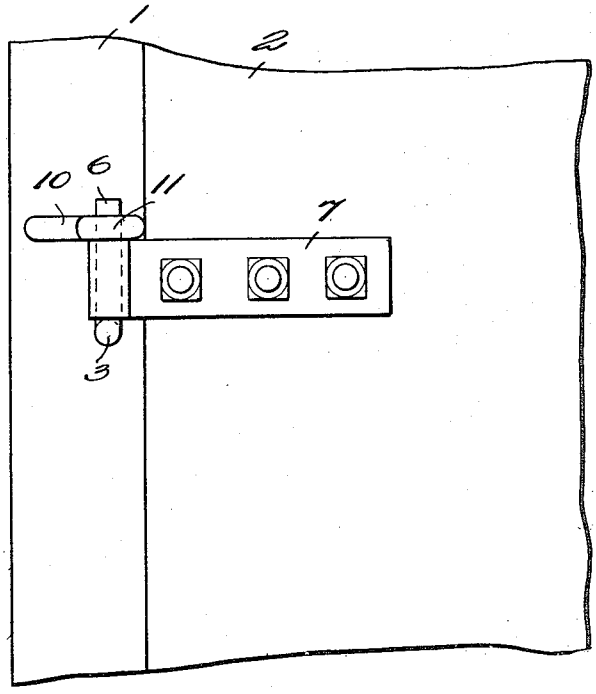


Fig. 1.

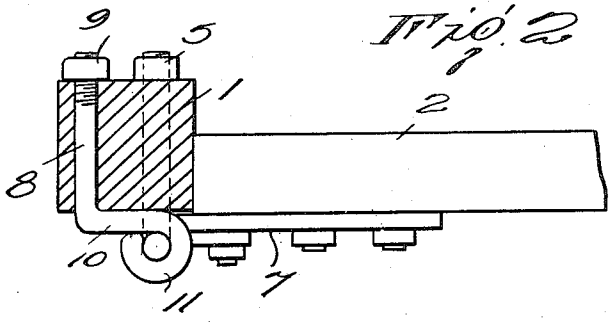


Fig. 2.

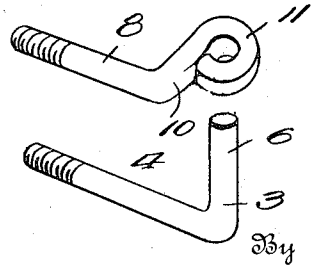


Fig. 3.

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ALBERT S. HARRELL AND OLIVER C. SPENCE, OF CAMILLA, GEORGIA.

HINGE.

1,278,642. Specification of Letters Patent. Patented Sept. 10, 1918.

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To all whom it may concern:

Be it known that we, ALBERT S. HARRELL and OLIVER C. SPENCE, citizens of the United States, residing at Camilla, in the county of Mitchell and State of Georgia, have invented certain new and useful Improvements in Hinges, of which the following is a specification.

This invention relates to new and useful improvements in hinges, and more particularly gate hinges or the like, and the primary object of the invention is to provide a hinge of this character that will eliminate all sagging, and which will hold the gate upright at all times.

Another object of the invention is to provide a hinge of this character with a strengthening attachment that is connected therewith, and is supported by the gate post, said attachment strengthening the pivot rod of the hinge and absolutely preventing the closure from sagging or the rod from becoming bent. This type of hinge is especially adapted for use on heavy gates or doors which are subject to sagging after a short use.

A further object of the invention is to provide a device of this character which is easily and simply constructed, inexpensive to manufacture, and one which will be very efficient in operation.

With these and numerous other objects in view, our invention consists of the novel features of construction, combination, and arrangement of parts which will be herein referred to and more particularly pointed out in the specification and claims.

In the accompanying drawings:

Figure 1 is a side elevation of the hinge applied,

Fig. 2 is a horizontal section showing a plan view of the hinge, and

Fig. 3 is a detail perspective view of the pivot bar of the hinge, and strengthening means adapted to be connected therewith.

In describing our invention, we shall refer to the drawings in which similar reference characters designate corresponding parts throughout the several views.

The numeral 1 designates the main support which may be a gate post or door frame, or the like, and the swinging closure is designated by the numeral 2. This closure may be a gate or door. The main support 1 is preferably flat sided and one portion of the hinge is formed of an angular rod 3 having one portion thereof designated by the numeral 4 positioned through the support 1 and a jam nut 5 on the projecting threaded extremity thereof that will securely hold the same in position. The other portion of this member extends upwardly as shown at 6, and forms the pivot rod that is adapted to receive a hinge leaf 7 thereon. The leaf 7 is connected with the gate or door closure 2.

This upright pivot rod is disposed parallel with and adjacent one side of the support 1 and the same would likely become bent allowing the gate to sag, after a short use and the primary object of this invention is to strengthen the pivot rod 6 so that any movement thereof will be prevented. With this object in view, we provide a securing rod 8 having its straight portion positioned through the support 1, adjacent the upper end of the pivot rod 6, the outer extremity of said rod extending therefrom and having a jam nut 9 positioned thereon, so as to securely hold the same in position. The other end of the rod 8 is bent laterally as shown at 10 and its extremity having an eye 11 formed thereon adapted to engage the upper end of the pivot rod 6. This connection will strengthen the pivot rod as the same is supported at both ends and all likelihood of turning movement thereof will be obviated.

In operation, when the member 3 of the hinge is positioned through the support 1, the leaf may be easily positioned thereon, as said leaf is connected with the closure 2, it is obvious that the hinge will operate in the usual manner. To strengthen the pivot rod 6 the securing rod 8 is positioned through the support 1 and the eye on the bent extremity thereof is positioned over the upper end of the pivot rod, hence, additionally supporting said road and preventing any turning movement thereof. This will absolutely prevent the gate or closure from sagging.

This type of hinge is especially adapted for use on heavy gates or doors, though it is adapted to be used on lighter constructions. The hinge is very simply constructed, as the pivot rod and its connection with the support 1 are made integral and the securing rod that is adapted for connection with the upper end of the pivot rod is an integral member. It is obvious that the gate or door may be hung on the member 3 be-

fore the securing attachment is positioned thereover, and when the leaf is in position, the eye may be brought into engagement with the upper end of the pivot rod to securely hold the same.

From the foregoing description taken in connection with the accompanying drawings, it is thought that a clear and comprehensive understanding of the construction, operation, and advantages of our invention may be had, and while we have shown and described the device as embodying a specific structure, we desire that it be understood that such changes may be made in said structure as do not depart from the spirit and scope of the invention as claimed.

Having fully described our invention, what we claim as new and desire to secure by Letters Patent, is:

1. The combination with a support, of an upright pivot rod having its lower end connected therewith and adapted to receive a hinge leaf thereon, a securing rod extending through said support adjacent the upper end of the pivot rod, and the adjacent end of the securing rod being bent laterally with an eye on the extremity thereof engageable with the upper end of the pivot rod.

2. A device of the class described comprising an angular member having one portion positioned through a support or the like, means for securing the same thereto, the other portion of said member extending parallel with said support to form a pivot rod adapted to receive a leaf hinge thereon, a securing member having a straight portion positioned through said support, means connected with one end of said securing member to hold the same to the support, the opposite end of said member being bent laterally adjacent the upper end of the pivot rod, and an eye formed on the extremity of said laterally bent portion adapted for engagement with the upper end of the pivot rod.

In testimony whereof, we affix our signatures hereto.

ALBERT S. HARRELL.
OLIVER C. SPENCE.