W. H. RALEY.

GATE HANGER.

APPLICATION FILED OCT. 28, 1919.

1,342,227.

Patented June 1, 1920.

2 SHEETS—SHEET 1.

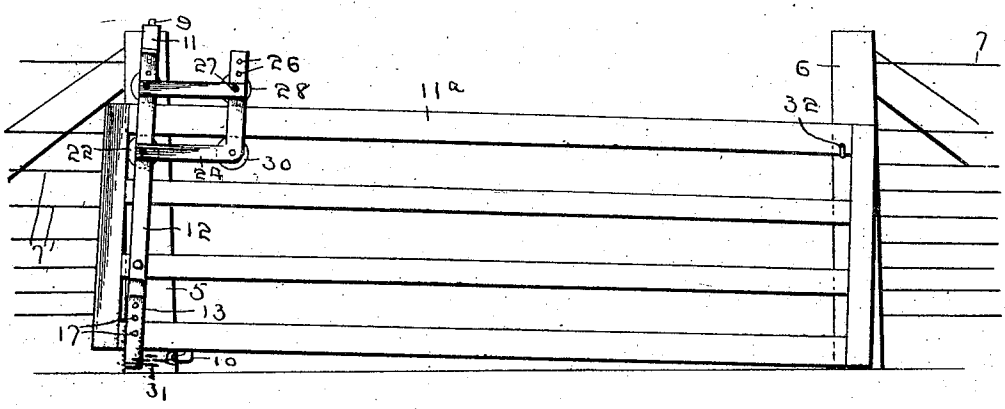
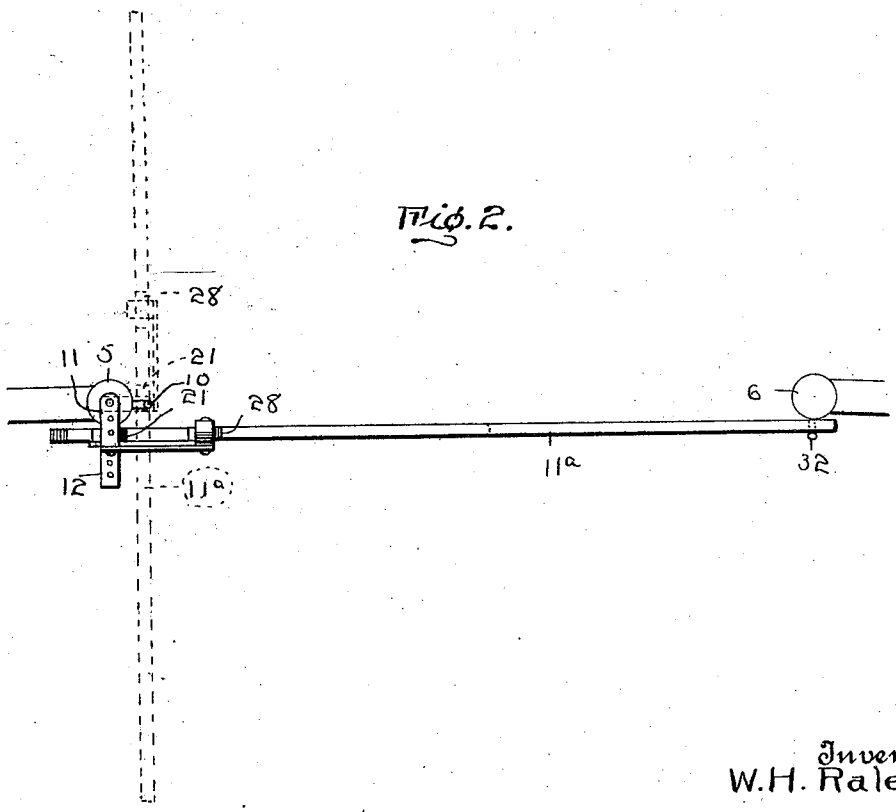


Fig. 1.

Fig. 2.



Inventor
W. H. Raley

By Geo. P. Kimmel.
Attorney

W. H. RALEY.

GATE HANGER.

APPLICATION FILED OCT. 28, 1919.

1,342,227.

Patented June 1, 1920.

2 SHEETS—SHEET 2.

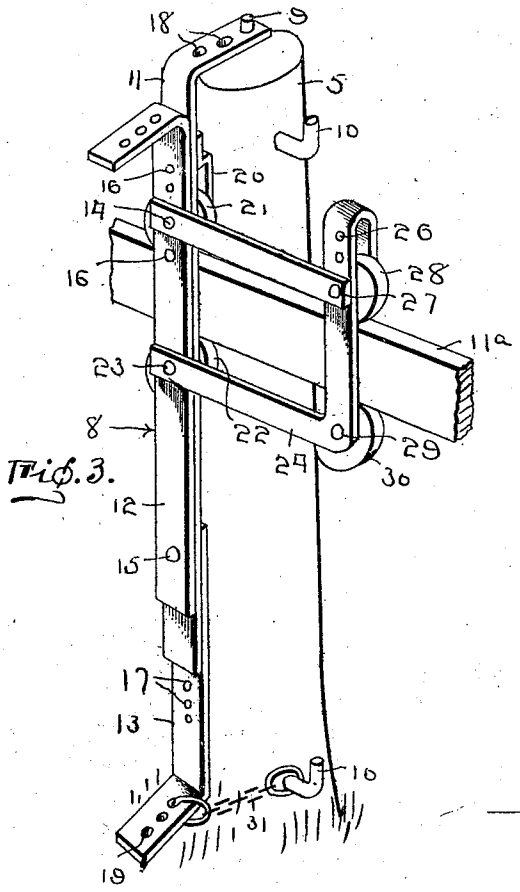


Fig. 3.

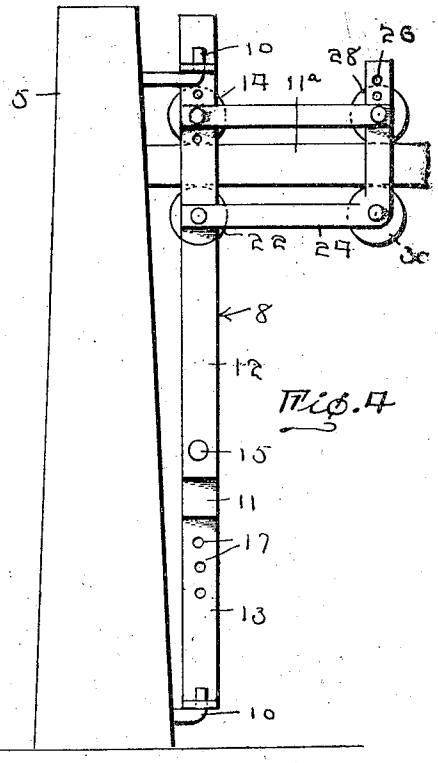


Fig. 4.

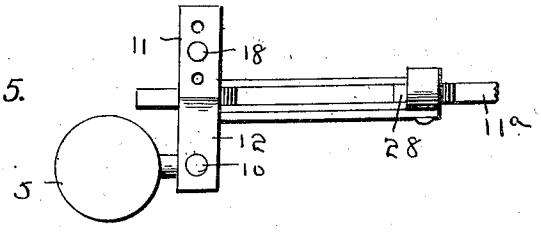


Fig. 5.

Inventor
W. H. Raley.

By Geo. P. Kimmel.
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM H. RALEY, OF CLAREMORE, OKLAHOMA.

GATE-HANGER.

1,342,227. Specification of Letters Patent. Patented June 1, 1920.

Application filed October 28, 1919. Serial No. 333,933.

To all whom it may concern:

Be it known that I, WILLIAM H. RALEY, a citizen of the United States, residing at Claremore, in the county of Rogers and State of Oklahoma, have invented certain new and useful Improvements in Gate-Hangers, of which the following is a specification.

This invention has for its object to provide a combined gate hanger and hinge which is so constructed as to permit the gate to be moved longitudinally to such intermediate position that its weight is substantially balanced on the hanger whereby facilitating its subsequent swinging movement to a full open position affording an open passageway between the opposed gate posts.

Another object is the provision of a hanger of this type embodying such novel features of construction as afford a variation of adjustments permitting application of the hanger to gates and posts of widely differing dimensions.

A further object is the provision of a hanger embodying novel details of construction facilitating application thereof to different types of gate posts.

With these and other objects in view as will appear as the description proceeds the invention comprises the novel features of construction, combination and arrangement of parts as will be hereinafter fully described in the following specification and set forth with particularity in the claims appended hereto.

Figure 1 represents a front elevation of the improved hanger applied to use, the gate being shown in closed position.

Fig. 2 represents a top plan view of the gate and hanger, the gate being indicated by dotted lines in open position.

Fig. 3 represents a perspective view of the hanger applied to a gate post, a fragment of the gate being illustrated in position thereon.

Fig. 4 represents an enlarged side elevation of the hanger and a fragment of the gate illustrating a modified application of the hanger to a gate post.

Fig. 5 represents a fragmentary top plan view of the structure illustrated in Fig. 4.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numerals 5 and 6 indicate gate posts arranged at the terminals of a fence 7 on opposite sides of a roadway. The gate hanger designated generally by the numeral 8 is of such construction as to be suspended from a vertically extending pivot pin 9 carried by the upper terminal of the post 5 or by angular hinge rods 10 projecting laterally therefrom and the gate 11 is supported for a combined swinging and longitudinal movement.

The hanger 8 comprises a supporting body composed of three sections 11, 12 and 13 which are adjustably connected by spaced connecting bolts 14 and 15 selectively engageable in series of longitudinally spaced apertures 16 and 17, respectively. The two upper body sections 11 and 12 lie in facial abutment throughout their entire length and the lower section 13 lies in contact with the section 11 and extends a distance below the latter and is provided with the apertures 17 whereby the length of the body member may be increased or decreased, as desired.

The upper extremity of the body section 11 is provided with a series of spaced apertures 18 and is directed angularly for pivotal engagement with the pin 9 carried by the gate post 5. The upper and lower extremities of the sections 12 and 13 are also directed laterally but oppositely to the angular extremity of the section 11 and are provided with spaced apertures 19 for engagement with the vertically extended portions of the angular hinge members 10.

A bearing member 20 is arranged against the body member 11 on the side opposite the section 12 and the medial portion thereof is disposed in spaced relation to the section 11 so as to accommodate a portion of the gate structure 11. The bearing member 20 is formed with a plurality of apertures alining with the apertures 16 in the sections 11 and 12 whereby the bolt 14 may be extended therethrough. A roller 21 is journaled upon the bolt 14 intermediate the section 11 and the bearing member 20 and a lower roller 22 is confined between the bearing member 20 and the body section 11 upon a bolt or shaft 23. The rollers 21 and 22 are arranged in spaced relation to each other to receive and support the upper longitudinal member of the gate structure 11 whereby the latter may be moved longitudinally of

the hanger 8, and by proper adjustment of the upper roller 20 which is facilitated due to the adjustable mounting of the bolt 14 in the several apertures 16, the hanger may be adapted for use in connection with gates of various sizes.

A substantially L-shaped arm 24 is connected at the free terminal of the horizontally disposed portion thereof with the body of the hanger by the bolt or shaft 23 and the upper extremity of the vertically disposed portion thereof is turned back and directed downwardly as indicated at 25 to form a yoke receiving the upper longitudinal member of the gate 11. The upper portion of the yoke is provided with a plurality of horizontally alined apertures 26 receiving a bolt 27 whereby the latter may be adjusted vertically with relation to the yoke to correspond with the adjustment of the bolt 14. A roller 28 is confined between the portions of the yoke and is journaled upon the bolt 27. A second bolt 29 is positioned through the lower extremities of the yoke and supports a roller 30. As will be understood, the rollers 28 and 30 are arranged in spaced relation to accommodate and support the upper longitudinal member of the gate structure 11 whereby the latter may be freely moved longitudinally with relation to the hanger.

When applying the hanger to a gate having a vertically extending pivot pin 9 at the upper extremity thereof, the latter is engaged in one of the apertures 18 in the body section 11 while a chain 31 is connected at one terminal in one of the apertures 19 of the lower extremity of the section 13 and is engaged at its opposite extremity with the lower hinge member 10 of the gate post 5 whereby the tendency of the hanger to swing under the weight of the gate 11, when the latter is in closed position, is prevented. When the gate hanger is applied to a post in this manner, it is disposed in the position illustrated in Figs. 1, 2 and 3 when the gate is closed, the latter being preferably held in such position by engaging one of the longitudinal members thereof over a hook 32 carried by the opposite gate post 6. To open the gate, the latter is elevated so as to disengage the hook 32 and is moved longitudinally upon the rollers 22 and 30 until its weight is balanced upon the rollers whereupon the gate and hanger are swung bodily upon the pivot pin 9 to open position as shown in dotted lines in Fig. 2. Due to the mounting of the longitudinal member of the gate structure upon the rollers of the hanger it is evident that only a comparatively small degree of resistance is offered to the sliding movement of the gate and when the gate is moved to a balanced position with relation to the hanger it is evident that the hanger may be readily turned from one position to another to dispose the gate transversely or longitudinally of the roadway, as desired.

If preferred, the apertured angular extremities of the body members 12 and 13 may be engaged with the vertically disposed portions of the angular hinge members 10 and when so disposed, the gate 11 is located upon the opposite side of the post 5 as suggested in Figs. 4 and 5. When the hanger is suspended in this manner, the chain 31 is dispensed with as being no longer necessary due to the pivotal connection of the opposite extremities of the body of the hanger with the hinge members 10. The mode of operation of the gate is the same regardless of the manner of mounting the hanger upon the gate post.

If preferred, when the gate hanger is utilized in the manner disclosed in Fig. 3, the lowermost section 13 may be removed, likewise the chain 31, as it is evident that the gate, when closed, may be supported at its terminal opposite the hanger either upon the ground or upon the hook 32, being prevented from tilting over by its confinement between the several rollers 21, 22, 28 and 30. Also when the gate is utilized in the manner disclosed in Fig. 4, the uppermost section 11 may be dispensed with and the gate supported by engagement of the angular extremities of the sections 12 and 13 with the supporting hooks 10.

What I claim is:

1. A gate hanger comprising an extensible body capable of longitudinal adjustment to permit its application to gate posts of different sizes, post engaging means carried by the body, and gate supporting means carried thereby.

2. A gate hanger comprising an extensible body, post engaging means projecting laterally from the opposite sides of the body and alternately and selectively engageable with a gate post, and gate supporting means carried by the body.

3. A gate hanger comprising a body, adjustable gate post engaging means projecting laterally from the opposite sides of the body and alternately and selectively engageable with a gate post, and means carried by the body for movably supporting a gate.

4. A gate hanger comprising an extensible body, gate engaging means carried by the body for pivotally connecting the latter to a post, spaced gate engaging and supporting rollers carried by the body member, means adjustably connecting one of said rollers to the body.

5. A gate hanger comprising an extensible body, gate post engaging means carried thereby, spaced gate engaging and supporting rollers carried by the body, a yoke connected with the body, spaced gate engag-

ing rollers carried by the yoke, and means adjustably mounting certain of the rollers.

6. A gate hanger comprising a sectional body, gate supporting means carried by the body, the lower section of the body having an angularly directed terminal adapted for pivotal engagement with a gate post, a flexible post engaging member carried by said lower section, and oppositely directed lateral extensions carried by the upper terminal of the body and alternately and selectively engageable with a gate post.

7. A gate hanger comprising a body, superposed gate engaging rollers arranged against the body, a relatively stationary support for the lower roller, adjustable supporting means for the upper roller, a yoke connected with the body, superposed rollers mounted in the yoke, the lower roller having a relatively stationary axis, and means adjustably supporting the upper roller.

In testimony whereof I affix my signature hereto.

WILLIAM H. RALEY.