J. K. ROCHESTER.

SWING GATE HINGE.

APPLICATION FILED APR. 27, 1914.

1,216,169. Patented Feb. 13, 1917.

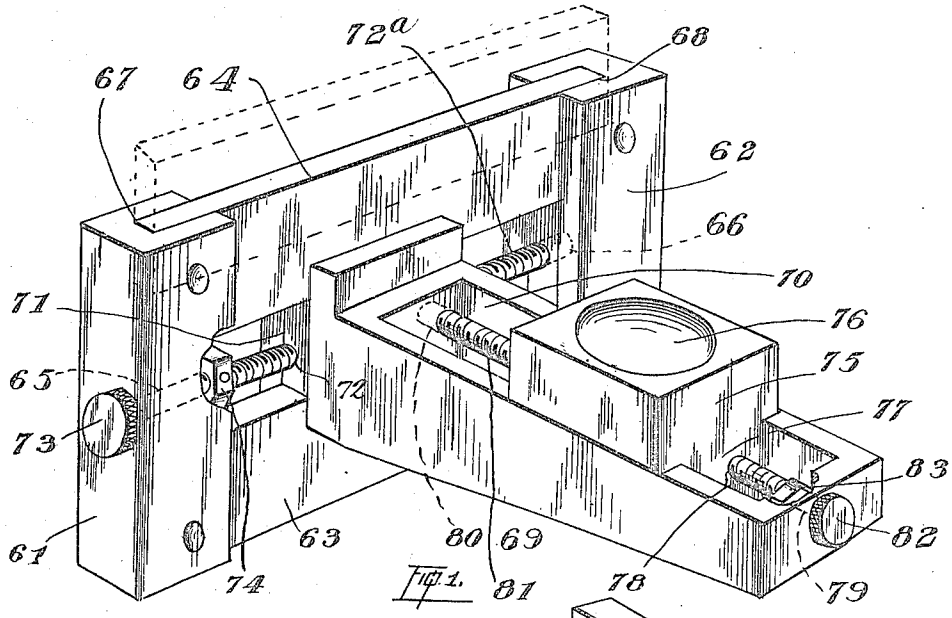


Fig. 1.

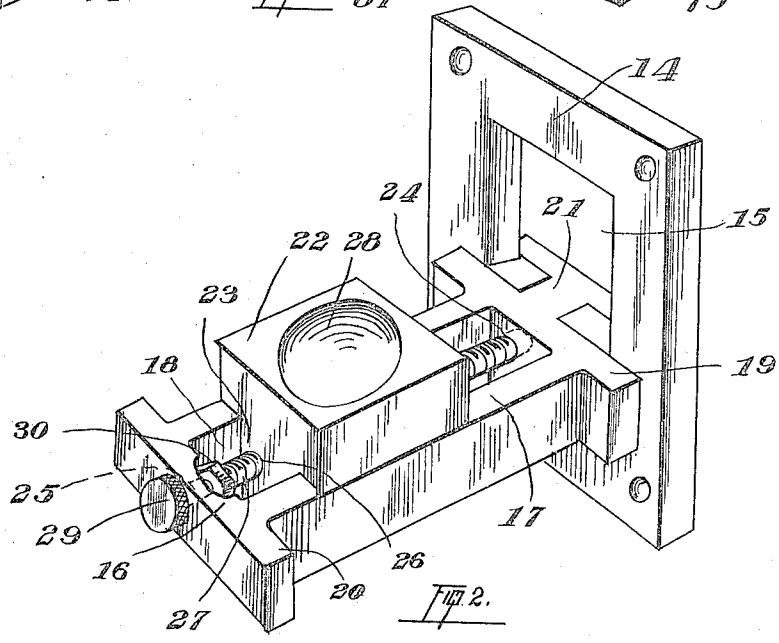


Fig. 2.

WITNESSES

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SWING-GATE HINGE.

1,216,169. Specification of Letters Patent. Patented Feb. 13, 1917.

Application filed April 27, 1914. Serial No. 834,814.

To all whom it may concern:

Be it known that I, JAMES KING ROCHESTER, a subject of the King of Great Britain, and resident of Renfrew, in the Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Swing-Gate Hinges, of which the following is the specification.

This invention relates to improvements in hinges for swinging gates of the type adapted to be opened or closed from a buggy, rig or cutter without getting out of the same and the objects of the invention are to generally simplify and improve the construction of the hinged parts of the gate, to vary the inclination of the pivotal axis of the gate, to adapt the several parts to better perform the functions required of them and it consists essentially of the improved construction hereinafter particularly described in detail in the following specification and accompanying drawings forming part of the same.

In the drawings,

Figure 1 is a perspective view of the lower socket, one type of bracket designed to support the same and the means of adjustment.

Fig. 2 is a perspective view of the lower socket showing a second form of supporting bracket.

Like characters of reference refer to like parts in the several drawings.

14 represents a lower supporting hinge member which is secured to a lower end of the hinge post by means of screws or the like, such supporting member being preferably of rectangular formation having a substantially T-shaped orifice 15 therethrough.

The bracket 16 comprises a body part 17 substantially rectangular in shape, having a longitudinally extending rectangular slot 18 therethrough, such bracket being provided with flanges 19 and 20 and having orifices 24 and 25 through its inner and outer ends and being further provided on its inner end with a T-shaped projection designed to engage with the T-shaped orifice in the supporting member 14.

22 represents a rectangular block provided with a socket 28 in its upper face and having a tongue 23 extending from its lower face and forming suitable shoulders therewith, such tongue being designed to slidably fit the rectangular slot 18 and the said shoulders adapted to contact with the top face of the bracket 16.

This tongue is provided with a threaded orifice 26 extending longitudinally therethrough.

27 represents a screw rotatably mounted in the orifices 24 and 25 in the bracket 16, such screw being designed to make threaded engagement with the orifice 26 in the tongue 23.

This screw is provided with a milled head 29 and is further provided with a collar 30 adapted to be screwed or otherwise fixed thereon, such milled head and collar being located on opposite sides of the outer end of the bracket 16 and designed to prevent longitudinal motion of the screw.

Referring to Fig. 1, an alternative device for adjusting the lower end of a hinge rod is shown consisting of a supporting member comprising sides 61 and 62 and the top and bottom transverse members 63 and 64.

The sides are provided with orifices 65 and 66 extending therethrough and located intermediate of their ends, the upper ends of the said sides being provided with grooves or recesses 67 and 68 in the inner edges thereof.

The bottom member is preferably formed integral with the said sides while the top member is designed to engage with the grooves 67 and 68 and be secured therein by suitable means.

69 represents a rectangular bracket having a rectangular slot 70 extending vertically therethrough, the inner end of such bracket being formed with a recess or groove 71 designed to engage with the top and bottom members of the supporting member.

This bracket is provided with a threaded orifice 72 extending transversely therethrough and located in the recess or groove 71.

The screw 72[a] is designed to rotatably engage with the orifices 65 and 66 and to make threaded engagement with the orifice 72.

This screw is provided with a milled head 73 and is further provided with a collar 74 making threaded engagement or otherwise suitably secured thereon, such head and collar being located on opposite sides of the side member 61 in close proximity thereto, thereby limiting the longitudinal motion of the said screw.

The rectangular block 75 is provided with a socket 76 in its upper face and is further provided with a rectangular tongue 77 extending from its bottom face and forming

suitable shoulders therewith, such tongue being provided with a threaded orifice 78 extending therethrough and being adapted to slidably fit the rectangular slot 70 in the bracket 69.

The bracket 69 is provided with orifices 79 and 80 in the outer and inner ends thereof with which the screw 81 is adapted to rotatably engage, such screw making threaded engagement with the orifice 78 in the tongue 77.

This screw is provided with a milled head 82 and a collar 83 suitably mounted thereon, such head and collar being located on opposite sides of the front of the bracket 69 thereby controlling the longitudinal movement of the screw 81.

This device is located at the lower end of a hinge post, the supporting member being secured thereto by screws or the like.

The adjustment of the rectangular block 75 is accomplished by means of the screw 81 while adjustment of the bracket 69 in a direction at substantially right angles to the previous adjustment is accomplished by means of the screw 72.

What I claim as my invention is:

1. A hinge comprising a supporting member, a bracket provided with a recessed end embracing and slidably engaging with the said supporting member, a socketed block provided with a recessed upper face slidably mounted in the bracket, and means for moving the said socketed block to and from the supporting member.

2. A hinge comprising a supporting member provided with movable transverse members, a bracket having a recessed end slidably mounted in the supporting member and embracing the transverse members thereof, a longitudinally extending screw mounted in the supporting member and making threaded engagement with the bracket, a socketed block slidably mounted in the bracket, and a screw disposed at substantially right angles to the first said screw operatively mounted in the bracket and making threaded engagement with the said socketed block.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

JAMES KING ROCHESTER.

Witnesses:
RUSSEL S. SMART,
P. M. GARROW.

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