W. W. H. SCHULTZ.

ADJUSTABLE GATE HINGE.

APPLICATION FILED JAN. 30, 1917.

1,245,127. Patented Oct. 30, 1917.

Fig. 1.

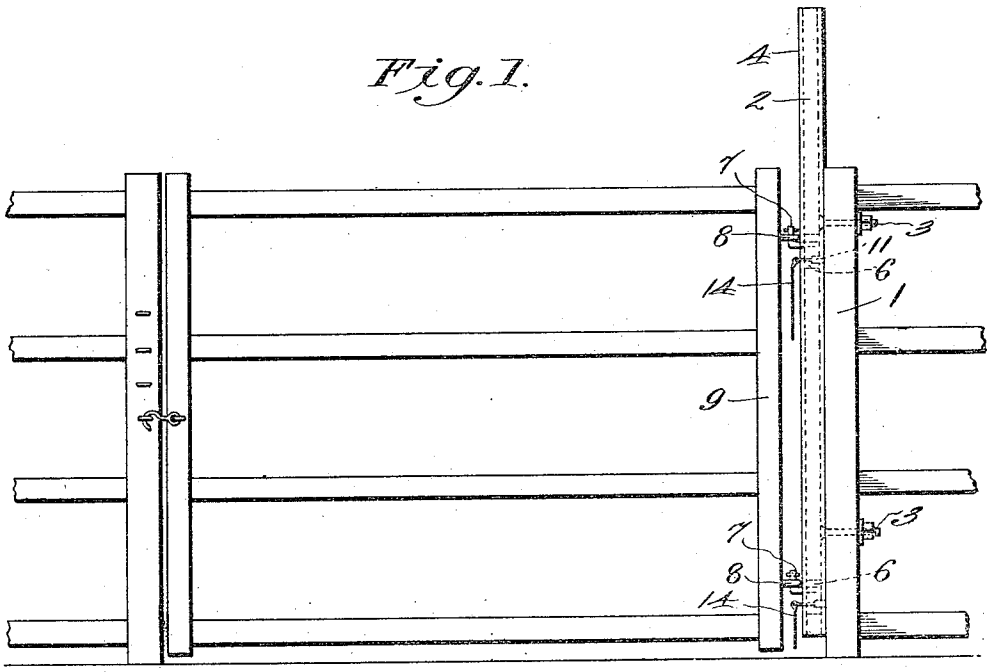


Fig. 2.

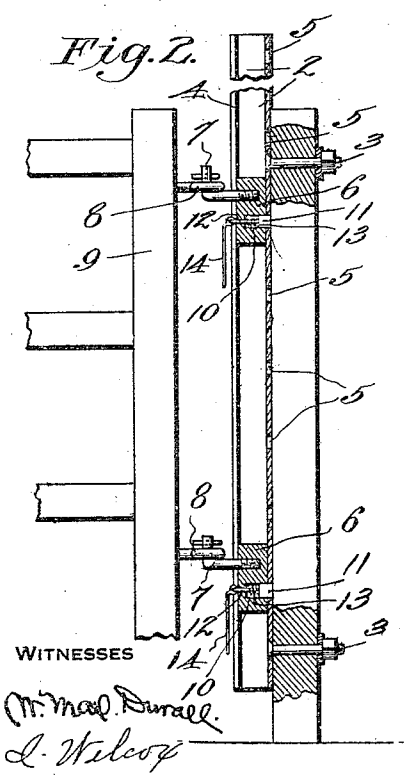
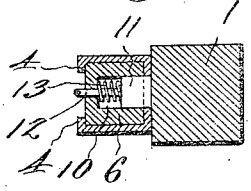


Fig. 3.



WITNESSES

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ADJUSTABLE GATE-HINGE.

1,245,127. Specification of Letters Patent. **Patented Oct. 30, 1917.**

Application filed January 30, 1917. Serial No. 145,467.

To all whom it may concern:

Be it known that I, WALTER W. H. SCHULTZ, a citizen of the United States, residing at Wayside, in the county of Brown and State of Wisconsin, have invented new and useful Improvements in Adjustable Gate-Hinges, of which the following is a specification.

This invention relates to gate hinges and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a gate with a supporting means adapted to be adjusted whereby the panel of the gate may be raised or lowered with relation to the hinge post thereof in order that the said panel may swing freely to clear obstruction as for instance snow or ice. Also the structure is such that the panel may be lowered with relation to the hinge post in order to close the space below the same when the said obstruction is removed thus making it possible for the panels to effectually close the gate opening and to clear any obstruction which may lie in its path of swinging movement.

In the accompanying drawing:—

Figure 1 is a side elevation of a gate with the hinge applied.

Fig. 2 is a vertical sectional view of the hinge.

Fig. 3 is a horizontal sectional view of the same.

The gate structure comprises a hinge post 1 which may be planted in the ground in any suitable manner and which may consist of wood or any other desired material. A guide 2 is mounted upon the post 1 and is secured thereto by means of suitable bolts 3. The guide 2 is approximately U-shaped in transverse section and is provided at its side portions with inturned flanges 4 which are spaced from each other at their inner edges. The said guide 2 is provided at its intermediate portion with a series of openings or perforations 5.

Blocks 6 are located within the guide 2 and are held therein by means of the flanges 4. The said blocks 6 are free to move longitudinally of the guide 2 when it is desired to adjust the said blocks along the guide. The blocks 6 carry pintles 7 upon which are pivoted knuckles 8 and the said knuckles 8 are secured to the edge of a gate panel 9 in a suitable manner. The blocks 6 are provided with sockets 10 which enter into the said blocks from the sides thereof which are adjacent the intermediate portion of the guide 2. Bolts 11 are slidably mounted in the socket 10 and are provided with shanks 12. Coil springs 13 surround the shank 12 and bear at one end against the bolts 11 and at their opposite ends against the bottoms of the sockets 10. The said springs are under tension with a tendency to hold the bolts projected into the openings 5 of the guide 2. Cords 14 are attached at one end to the shanks 12 and the said cords pass through the side portions of the blocks 6 at the inner ends of the socket end thereof.

When it is desired to raise or lower the gate panel 9 with relation to the hinge post 1 the cords 14 are pulled whereby the bolts 11 are moved longitudinally and drawn into the socket 10 and withdrawn from the opening 5 in the guide 2. Therefore the said blocks 6 are rendered free and may be moved longitudinally of the guide 2 and when they are at desired positions the cords 14 are released and the tension of the spring 13 comes into play whereby the bolts 11 are projected into registering openings 5 in the guide 2. Consequently the blocks 6 are fixed with relation to the guide and the panel 9 is supported at an adjusted position with relation to the hinge post 1.

It is obvious that should an obstruction occur or take place in the swinging movement of the gate panel the said panel may be raised to clear the said obstruction and when the said obstruction is removed or when it disappears the panel may be lowered with relation to the hinge post in order to effectually close the gate opening.

Having described the invention what is claimed is:—

A gate hinge comprising a single channel guide adapted to be secured to a gate post and having openings at its intermediate portion and provided at its edges with inwardly disposed flanges spaced from each other, a plurality of independently movable blocks located in the guide, pintles carried by the block and adapted to support a gate panel, a spring pressed bolt slidably mounted in each block and adapted to engage in the openings in the guide, and means for retracting the said bolts.

In testimony whereof I affix my signature.

WALTER W. H. SCHULTZ.

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