J. S. SMITH.
Gate-Hanger.

No. 207,825. Patented Sept. 10, 1878.

Fig. 1.

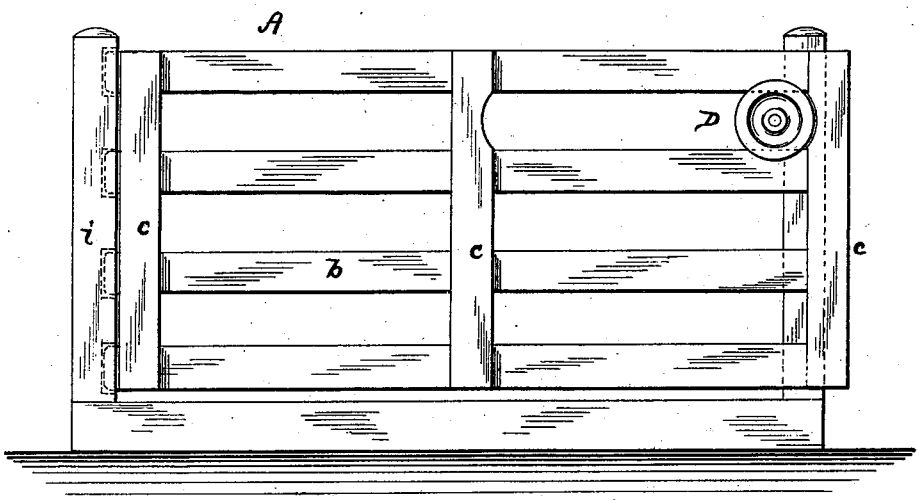


Fig. 2.

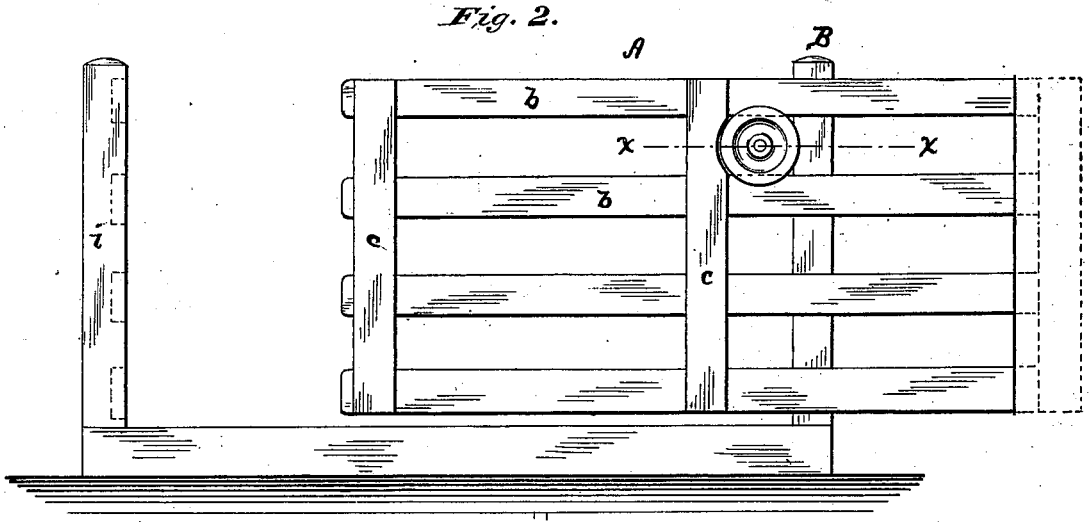
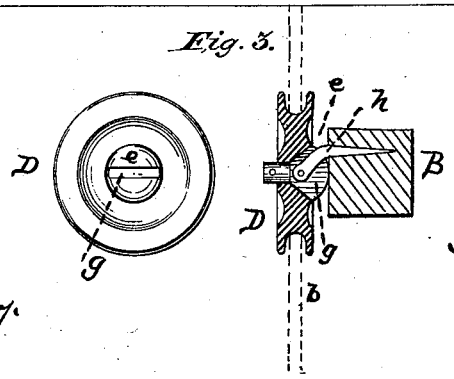


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN S. SMITH, OF JACKSON, MICHIGAN.

IMPROVEMENT IN GATE-HANGERS.

Specification forming part of Letters Patent No. **207,825**, dated September 10, 1878; application filed April 9, 1878.

To all whom it may concern:

Be it known that I, JOHN S. SMITH, of Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Gate-Hangers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in hangers for sliding and swinging gates; and it consists, essentially, in a flanged wheel mounted upon a cone-shaped hub, which is recessed and pivoted upon a bar or arm secured to the gate-post, all substantially as hereinafter more fully described and claimed.

In the accompanying drawing, Figure 1 is a side elevation of a gate with my improved hanger applied thereto. Fig. 2 is a like view, with the exception that the gate is represented as being drawn back. Fig. 3 is a section of the hanger and gate-post to which it is connected, the same being taken on a horizontal plane at the line *x x*, Fig. 2.

Adjacent to Fig. 3 is a rear view of the wheel and hub, with the connecting-arm removed in order to more clearly illustrate the recess in the cone-shaped hub.

A represents an ordinary gate, composed of the rails *b* and vertical bars *c*.

D is a flanged wheel, which is suitably bored for the reception of a cone-shaped hub, *e*, upon which it is mounted. This hub *e* is formed with a recess at *g;* and within this recess I pivot the end of a bar or arm, *h*, the pivotal point being at a sufficient distance within the recess to prevent any sagging of the hub, and consequent binding of the flange of the wheel upon the rail of the gate. The bar *h* is rigidly secured in or to one of the gate-posts B, and the flanged wheel is adjusted between two rails of the gate.

In Fig. 1 the gate is represented as closed; and, as shown, the hanger constitutes a bearing for one end of the same, while the other is supported by projecting ends of the rails, which fit into mortises in the post *i*.

In order to open the gate it is drawn backward, the top rail traversing the hanger-wheel until said wheel strikes the central vertical bar, *k*. After this the gate may be swung round, the wheel and cone-shaped hub turning with it and upon the pivotal bearing of the hub. If desired, two of these hangers may be employed instead of one.

What I claim as my invention is—

1. A hanger for sliding and swinging gates, composed of a flanged wheel mounted upon a cone-shaped hub, which is pivoted upon a bar or arm, substantially as described.

2. The cone-shaped hub having a flanged wheel mounted thereon and recessed, substantially as shown, in combination with an arm or bar adapted to be secured to a gate-post, and having one end pivoted in the recess of the hub, the whole forming a hanger for sliding and swinging gates, substantially as shown and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN S. SMITH.

Witnesses:

F. W. HOLLISTER,

W. P. HEATON.