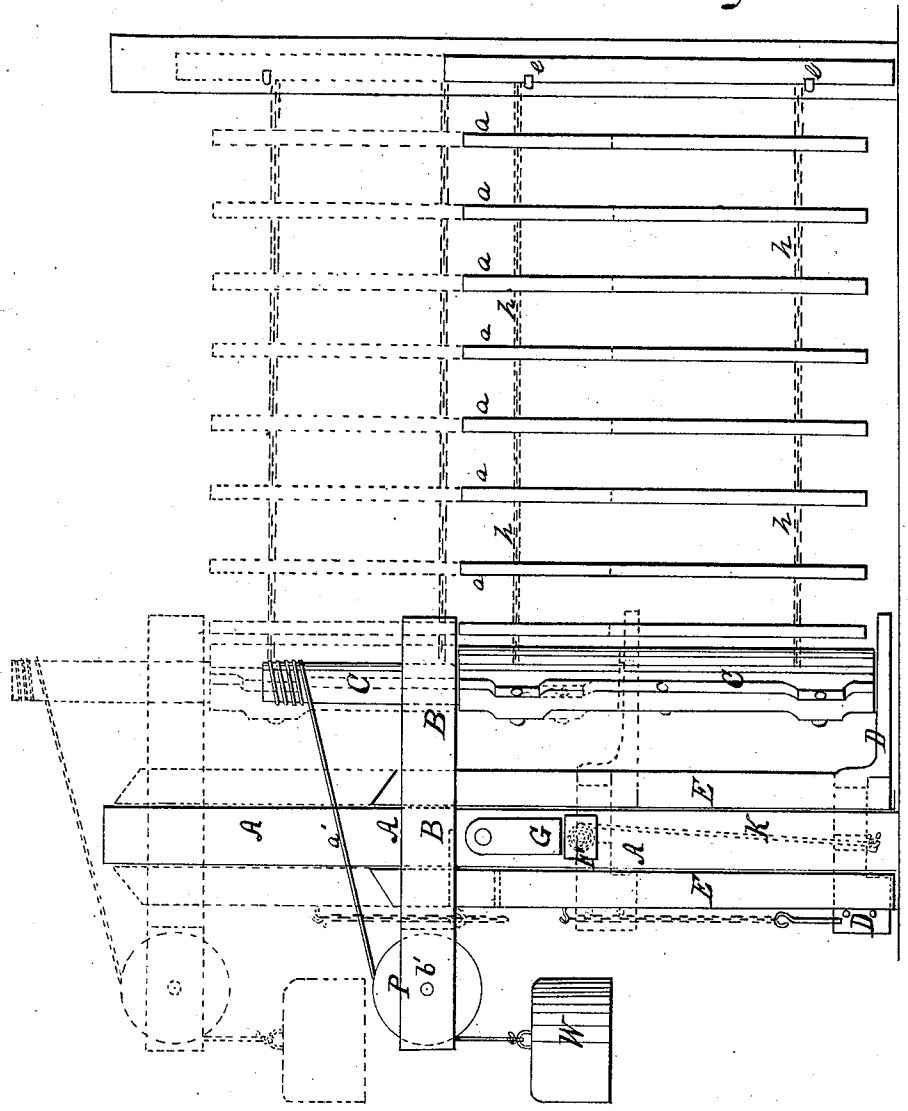
M. F. Kent,

Swinging Gate,

No. 80,969, Patented Aug. 11, 1868.



Witnesses

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MUNSON F. KENT, OF WEST UNION, IOWA.

Letters Patent No. 80,969, *dated August* 11, 1868.

IMPROVEMENT IN GATES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, MUNSON F. KENT, of West Union, in the county of Fayette, and State of Iowa, have invented a new and improved Gate; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved method of constructing gates, whereby the same are more easily opened and shut, and whereby the same are less liable to obstruction from heavy snows.

It consists of slats or bars, held together by chains or cords passing through said slats at the top and bottom, attached to a vertical post, upon which said slats are wound, the whole being in a frame, which moves up and down upon the gate-post.

The drawing represents a front view of the gate and gate-posts, the red lines indicating the position of the gate when the same is raised.

A is the gate-post. B is the top piece and D the bottom piece of the frame, to which the gate is fastened, secured together by the side pieces E.

C is a vertical post, turning in the top piece A and bottom piece D, to which the gate-bars or slats *a* are fastened by the chain *h*, and upon which said gate-bars *a* are wound when the gate is closed.

F is an axle, passing through the gate-post A. Upon it is wound the cord or chain *k*. It is provided with a head or wheel, by which it is turned.

G is a button, to stop the axle F from turning.

a, bars or slats, of which the gate is composed.

e are fastenings, to hold the gate shut.

K, the rope or chain, by which the gate is raised or lowered.

a' is the cord, passing over the pulley P, wound upon the post C, by which the gate is wound up or opened by the weight *w*.

e', the pivot, on which pulley P turns.

L is a chain and pin, by which the gate is held up.

The gate-post A is represented in the drawing with its front side taken off, disclosing the cord or chain *k*. Said gate-post is made in two parts or one part, with a mortise in it, in which the frame, composed of the parts E B D, moves upwards and downwards. Said post A has through it an axle, F, with a head or wheel on the outside, upon which the cord or chain K is wound. Said cord K is attached to the lower part of the frame D, so that when the axle F is turned, the cord K is wound upon it, thereby raising, or, by moving in the opposite direction, lowering, the frame B E D, and the vertical post C, to which the gate is attached. A button, G, is attached to side of the gate-post A, which, fitting on to the head of the axle, prevents it from turning.

The vertical post C turns in the parts of the frame B D, operating like a drum, upon which the slats *a* and chain *h* are wound when the gate is being opened.

To the top of said post C is attached a cord, *a'*, and which said cord is wound around said post. To the other end of said cord *a'* is attached a weight, *w*. Said cord *a'* passes over the pulley P. The operation is such, that when the fastenings E are loosened, the slats *a* and chain *h* are wound upon the posts C by means of the weight *w* and cord *a*, thereby opening the gate.

The advantages are, that the gate by this means can be raised above and out of the way of snow or other obstructions, and that the gate may be opened and closed in any position, and also that it may be opened or closed without taking up the room or meeting with any of the obstructions in the way of other gates.

I claim as new, and desire to secure by Letters Patent—

1. The vertical slats *a*, connected by the chain *h* to the post C, all constructed, arranged, and operating substantially as and for the purposes herein set forth.

2. The gate-post A, in combination with axle F and cord K, by means of which said gate is raised, substantially as shown and described, and for the purposes set forth.

3. The vertical post C, in combination with the cord *a'* and weight *w*, by means of which said gate is opened, substantially as shown and described, and for the purposes set forth.

MUNSON F. KENT.

Witnesses:

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