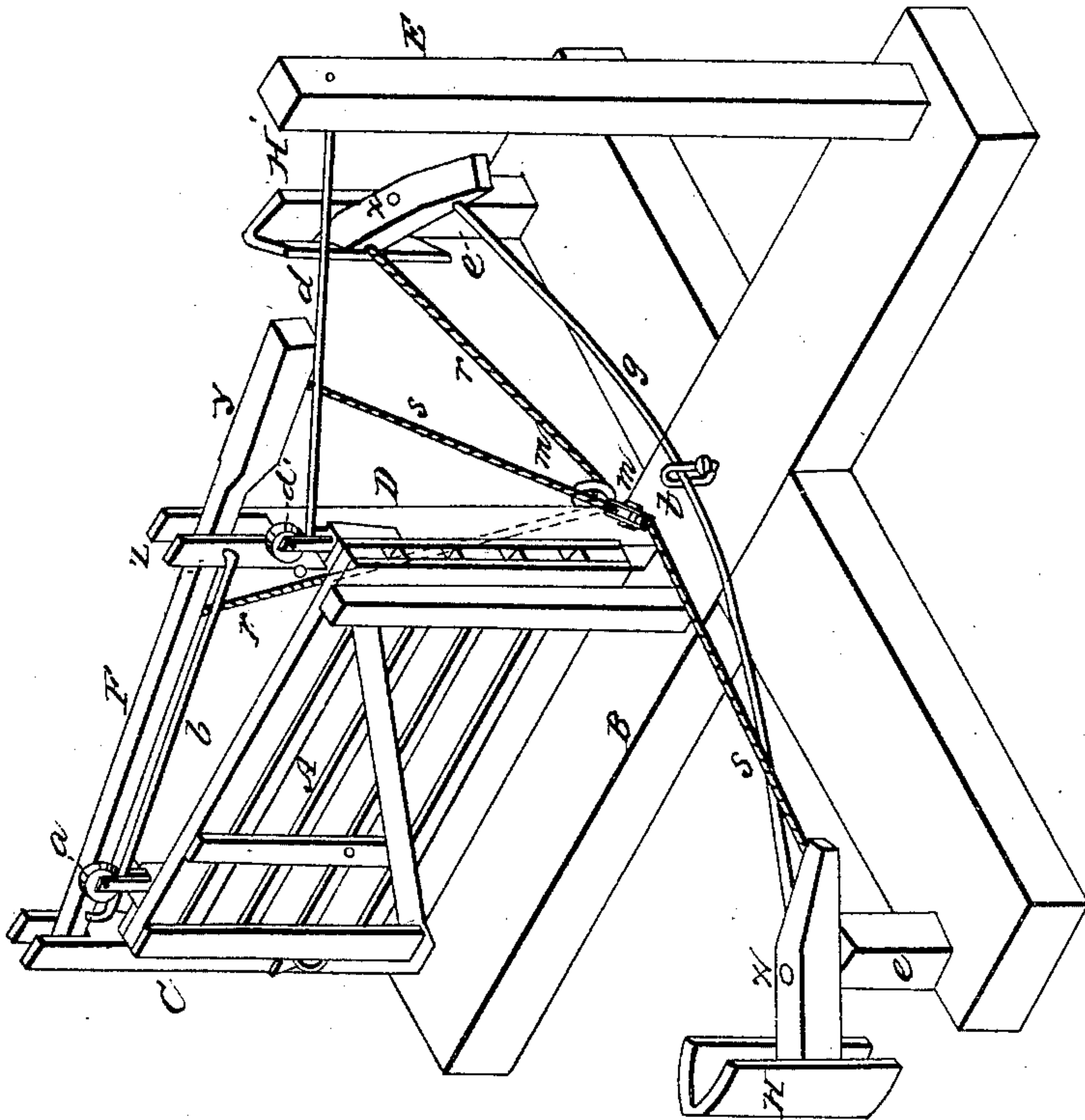


A. C. SMITH.

Gate.

No. 63,318.

Patented March 26, 1867.



Witnesses:

P. B. Stockbridge
A. A. Yeatsman

Inventor:

Albert C. Smith
per
Alexander & Mason
Attorneys.

United States Patent Office.

ALBERT C. SMITH, OF FORT MADISON, IOWA.

Letters Patent No. 63,318, dated March 26, 1867.

IMPROVEMENT IN SELF-ACTING 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, ALBERT C. SMITH, of Fort Madison, in the county of Lee, and in the State of Iowa, have invented new and useful Improvement in Self-Acting Gates, and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

A represents the gate, which is made of a series of panels connected together and braced. Upon its top, at each end, are pulleys, *a a'*, which alone connect it to the fence posts. C, D, and E are three fence posts placed at suitable distances from each other, and between which the gate is operated. Above the gate, between posts C and D, is a lever, F, having a weight, *g*, at its outer end, and is pivoted to post D, at the point *z*. Secured to the outer face of this lever, between the posts C D, is a metallic rod, *b*, upon which hangs the pulley *a* at the near end of the gate. There is a diagonal rod passing from the post D below its top to the top of post E, and upon which rests the other pulley, *a'*, of the gate A. H and H' are two levers, at about wagon-length in front and rear of the centre gate post D. These levers are each secured upon small studs or blocks, *e e*, and pivoted *x* thereon so that they readily turn. *g* is a metallic rod passing under a loop, *t*, near post D, and connects the two levers H and H' at their inner and opposite ends, as shown, while there are cords, *r* and *s*, which connect the said levers H to the lever F. It will be seen that the cord *s* passes from the near end of lever H, under a pulley, *m*, at the bottom of post D, to the weight *g*, near the end of lever F; while the cord *r* passes from the far end of lever H', under pulley *m*, past post D, and to near the centre of the said lever F.

This gate is intended to be operated upon by the hub of a vehicle striking either of the levers H. By throwing the cap of either of the said levers inwards, the lever F is thrown upwards by means of the rod *g* and cords *r s*, which causes the gate pulley *a* to advance to post D, and pulley *a'* to advance to post E, and the gate is opened and closed by the wagon hub striking the opposite lever and the gate resumes its normal condition.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination and arrangement of the gate A, lever E, and rods *b d*, and operated by the levers H H' with their cords *r s*, rod *g*, and pulleys, in the manner substantially as described and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 10th day of December, 1866.

ALBERT C. SMITH.

Witnesses:

WILLIAM D. HOUGHLAND,
CLEM. H. HAMPTON.