

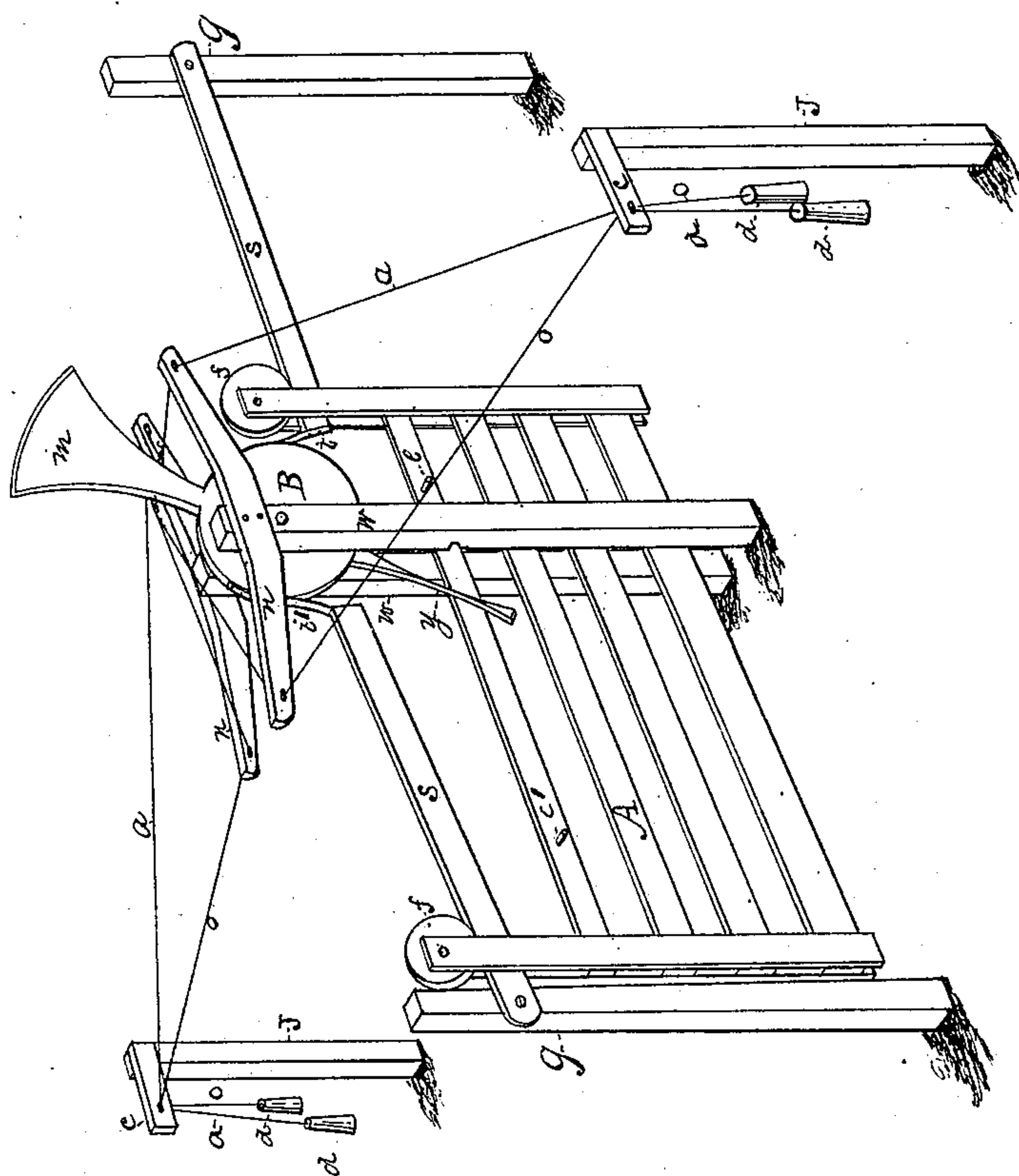
(No Model.)

S. HUSHAW.

GATE.

No. 336,049.

Patented Feb. 9, 1886.



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

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GATE.

SPECIFICATION forming part of Letters Patent No. 336,049, dated February 9, 1886.

Application filed January 21, 1884. Serial No. 118,163. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HUSHAW, of Industry, in the county of McDonough and State of Illinois, have invented a new and
5 useful Improvement in Farm-Gates; and I do hereby declare that the following description will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, and to the letters of
10 reference marked thereon.

The object of this invention is to supply a long-felt want among farmers in the construction of a durable and efficient farm-gate with suitable appliances, so that the gate can
15 be opened or closed from either side by the operator, either on foot or horseback, or in a carriage or loaded lumber-wagon; and its novelty consists in suitable appliances with ways or tracks that can be inclined, to which the
20 gate is hung, and can be opened or closed from either side, all as fully set forth in the following description, and pointed out in the claim.

In the drawing, which is a perspective view
25 of the invention, A represents the gate, which is constructed in the usual manner, except the end cleats, which extend up above the upper cross-bar a foot or more, and are provided with friction-wheels *ff*, which rest on
30 the ways or tracks *ss*. These tracks, at their outer ends, are pivoted to the posts *gg*, their inner ends being attached by flexible straps or chains *ii'* to the wheel B. By means of
35 these flexible straps the inner ends of the ways *ss* can be raised or lowered, so as to form an incline either inward or outward, both inclining the same way sufficiently to cause the gate to open or close by means of its own weight. The wheel B is hung on an axle
40 which passes through the posts *ww*, and has a weighted arm, *m*, and spring-arm *y* attached, as shown.

nn represent curved cross-pieces firmly attached to the upper ends of the posts *ww*.
45 The cords *o* and *a* on each side of the gate are at their inner ends firmly attached to the weighted arm *m*. The cords *o* are attached on the front side, as shown, and the cords *a* on the rear side. They then pass through
50 the eyes at each end of the cross-pieces *nn*, as shown, thence out on each side to the posts J, and through the eyes in the arm *c*. The

handles *dd* are attached to their outer ends, which also act as weights to keep the cords stretched tight.

The operation is as follows: The gate being represented shut, the operator, approaching from either side of the gate A, with the hand grasps the uppermost handle *d*, or, as shown, the handle that is attached to the cord *o*, and
60 gives it a brisk pull, which draws the weighted arm *m* over to the side opposite to which it is shown, and in so doing the pivoted ways *ss*, by means of the flexible straps *ii'*, change the incline, the straps being wound up and let
65 out on the wheel B, so as to form an incline track outward; also by the same movement the spring-arm *y* strikes the projecting pin *e*, which gives the gate a start, and by means of the inclined ways *ss* and friction-wheels *ff*
70 the gate runs back to the outer post *g* by its own weight. In closing the gate the same movement is required as in opening. Only the cord *a* is drawn, which draws the weighted arm *m* back to its shown position, which
75 changes the incline of the tracks *ss*, so that when the gate is started, as in opening, it will run forward and close, as shown.

The weighted arm *m* is of sufficient weight to hold the tracks *ss* in the position that will
80 keep the gate closed or opened, as may be required.

The projecting pins *ee'* are placed in such a position on the gate that in opening or closing the spring-arm *y* will strike one or the
85 other sufficiently to start the gate to open or close, as the case may be.

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

In combination with the supporting-posts and gate provided with rollers *ff* and pins *ee'*, the pivoted ways or tracks *ss*, wheel B, connected with said tracks by flexible straps *ii'*, and carrying weighted arm *m* and spring-
95 arm *y*, cords *o* and *a*, attached to said weighted arm and provided with handles *dd*, and guide-supports for said cords, substantially as described.

SAMUEL HUSHAW.

Witnesses:

L. J. PRICE,
W. T. PRICE.