

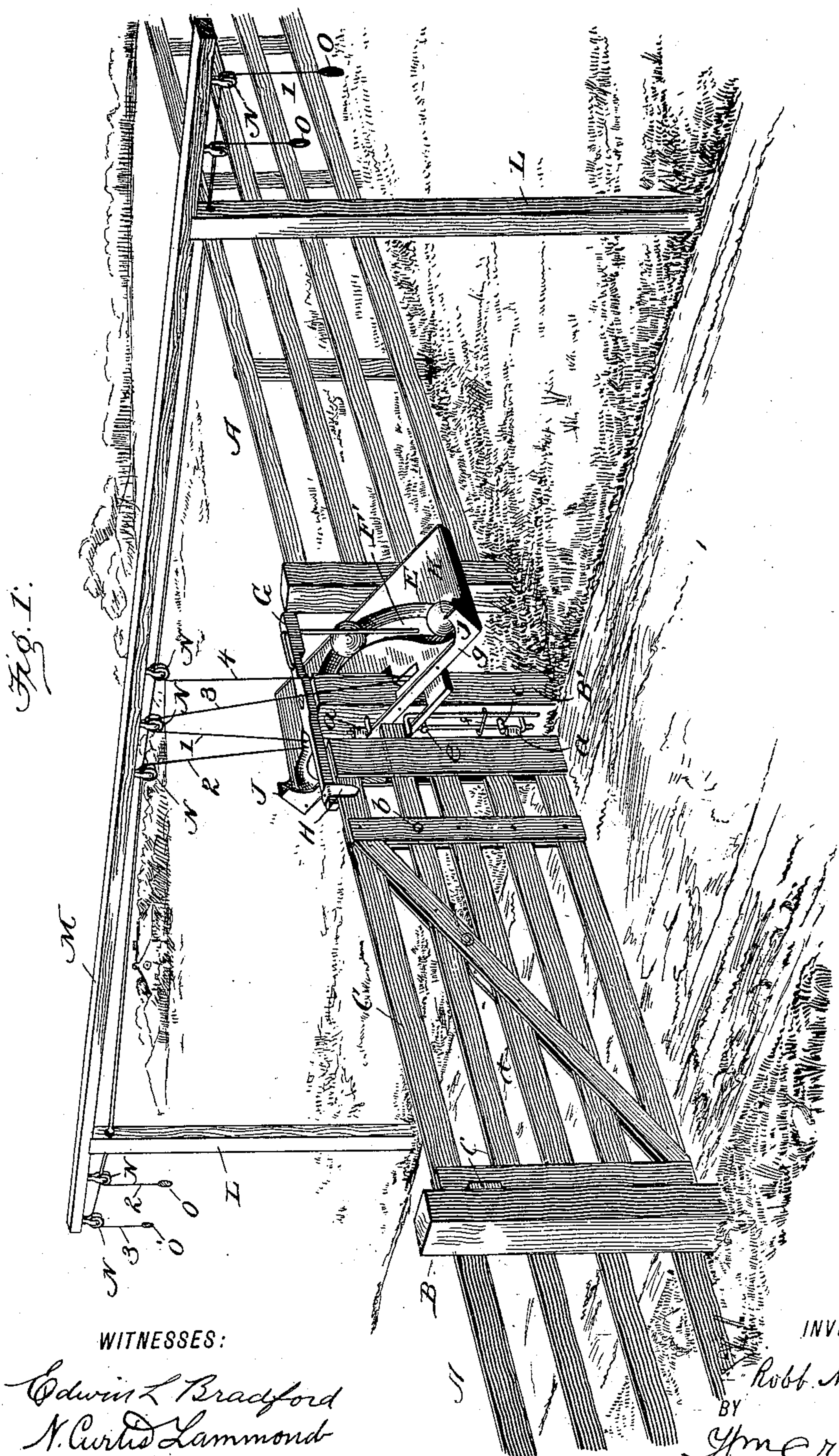
(No Model.)

2 Sheets—Sheet 1.

R. N. BARGER.
FARM GATE.

No. 565,422.

Patented Aug. 11, 1896.



WITNESSES:

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ROBERT N. BARGER, OF HOPEDALE, ILLINOIS.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 565,422, dated August 11, 1896.

Application filed November 18, 1895. Serial No. 569,343. (No model.)

To all whom it may concern:

Be it known that I, ROBERT N. BARGER, a citizen of the United States, residing at Hopedale, in the county of Tazewell and State of Illinois, have invented certain new and useful Improvements in Farm-Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in farm-gates.

It has for its object to provide means by which the gate may be readily opened and closed on approaching or leaving the same by the application of but a small degree of power.

With these ends and objects in view my invention consists in the construction and arrangement of parts hereinafter and in detail described.

To enable others to make and operate my improved gate, I will proceed to describe the construction and arrangement of parts and the manner in which it is operated, referring by letters and numerals to the accompanying drawings, in which—

Figure 1 is a perspective view of a gate constructed and arranged according to my invention. Fig. 2 is a vertical section taken at the line *xx* of Fig. 3, and Fig. 3 is a side elevation of the hinge end of the gate with the vibrating ball-carrying platform partly in section.

Similar letters and numerals of reference indicate likeparts in the several figures of the drawings.

A represents portions of an ordinary fence provided with gate-posts B B'.

The gate C is secured to the post B' through the medium of ordinary hinges *a*, and one of the rails of the gate is pivoted at *b* and constitutes the latch, adapted to interlock at its forward end under a "keeper" *c*. A spring *d* of any desired form is arranged under the latch-rail forward of its pivot *b* to keep the front end of the latch normally up in the keeper *c*.

Between the hinges and in line therewith there is arranged upon the post B' a vertically-reciprocating latch-operating slide or bar D, which straddles guide-pins *e e* and is held

in position by confining-staples *f*, (one or more.)

E is a tilting platform which in its normal position stands in a horizontal position about midway below the top of post B. This platform is provided with an open semicircular groove or slot F', traversing near its rear edge and toward the front at each end. The front edge of the platform is cut away or mortised centrally to surround three sides of the post and is furnished on its front edge with a metal bar or strip *g*, which passes in front of the post B', so that the platform practically surrounds the post. The platform is secured at the desired altitude to the post B upon a horizontal pivot, so that said platform is capable of being vibrated upon such pivot to raise or lower each end, as desired.

To the under side of the platform E is hinged a plate F, which surrounds the post B' and has its forward free edge underneath the horizontal portion of the slide or latch operating bolt D, as clearly shown in Figs. 1 and 2.

On the top of the post B' is secured by a vertical pivot an arm G, the forward end having a downwardly-projecting inverted stirrup H, the bars of which embrace or straddle the upper rail of the gate, as clearly shown in Figs. 1 and 3. The rear end of this arm G extends to a point coincident with the circumference of the slot or groove F' of the platform E, and depending from the rear end of the arm is a vertical bar I, which is central of the slot F'.

When the gate is closed, the platform is in a horizontal position and the vertical bar hangs down through the center of the slot F' midway from each end thereof.

The two front corners of the platform E are provided with angle or corner irons to constitute stops or pockets for two spherical weights or balls K, located in the curved groove or slot F'.

A frame consisting of the posts L L and horizontal cap-rail M is arranged over the hinge-post B' and at right angles to the gate when in its closed position. On the under side of the rail M are arranged a series of grooved hanger-pulleys N N, &c., which guide and support four operating-cords provided with handles O.

Two of the handles are arranged on each side of the gate within easy reach. The cord 1 of one side and the cord 2 of the opposite side pass through the platform E and the hinged plate F and are secured on the under side and near one end thereof by a knot or in any other suitable manner, and the cords 3 and 4 are similarly secured to the hinged plate at the opposite end.

To open the gate, approaching it with the hinge-post to the right, cord No. 1 is pulled, the first effect of which is to lift the hinged plate F, which in turn lifts the sliding bolt D against the under edge of the latch-bar and causes its forward end to be released from the keeper *c*, thus unlatching the gate. The continuous pull of the cord hauls the hinged plate in contact with the under side of the platform E and causes the same to tilt or rock on its horizontal pivot, and the spherical ball or weight K in front of the depending rod I gravitates in the slot F' against the rod I and causes the horizontal arm G on top of post B' to rotate, and through the medium of the stirrup H the gate will be swung open. After passing through the gate it is closed by a pull upon the cord 3 on that side of the gate which reverses the movement of the platform and restores it and its weights to the horizontal and normal positions and carries the gate to the proper position to be latched by the upward movement of the forward end of the latch-bar under the influence of the operat-

ing-spring *d*. A similar movement of the other two cords will produce like results if the gate is to be opened and closed in approaching it from an opposite direction.

Having described the construction and operation of my improved gate, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a swinging gate C, and post B', and an operating horizontally-pivoted arm G embracing the gate, and having a vertical projection I at its rear end; a vertically-tilting platform supporting traveling weights, adapted to alternately bear against the projection I and suitable cords connected with and adapted for initially tilting the platform and setting the traveling weights in motion, substantially as and for the purposes set forth.

2. In combination with the swinging gate, the tilting platform E having the curved slot F' and hinged plate F, the sliding bolt D, the pivoted arm G with stirrup H and vertical arm or rod I, the spherical weights K, the operating-cords 1, 2, 3, 4 and cord-frame L, L, M, substantially as and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT N. BARGER.

Witnesses:

W. J. MOOREHEAD,
BEN S. FORD.