

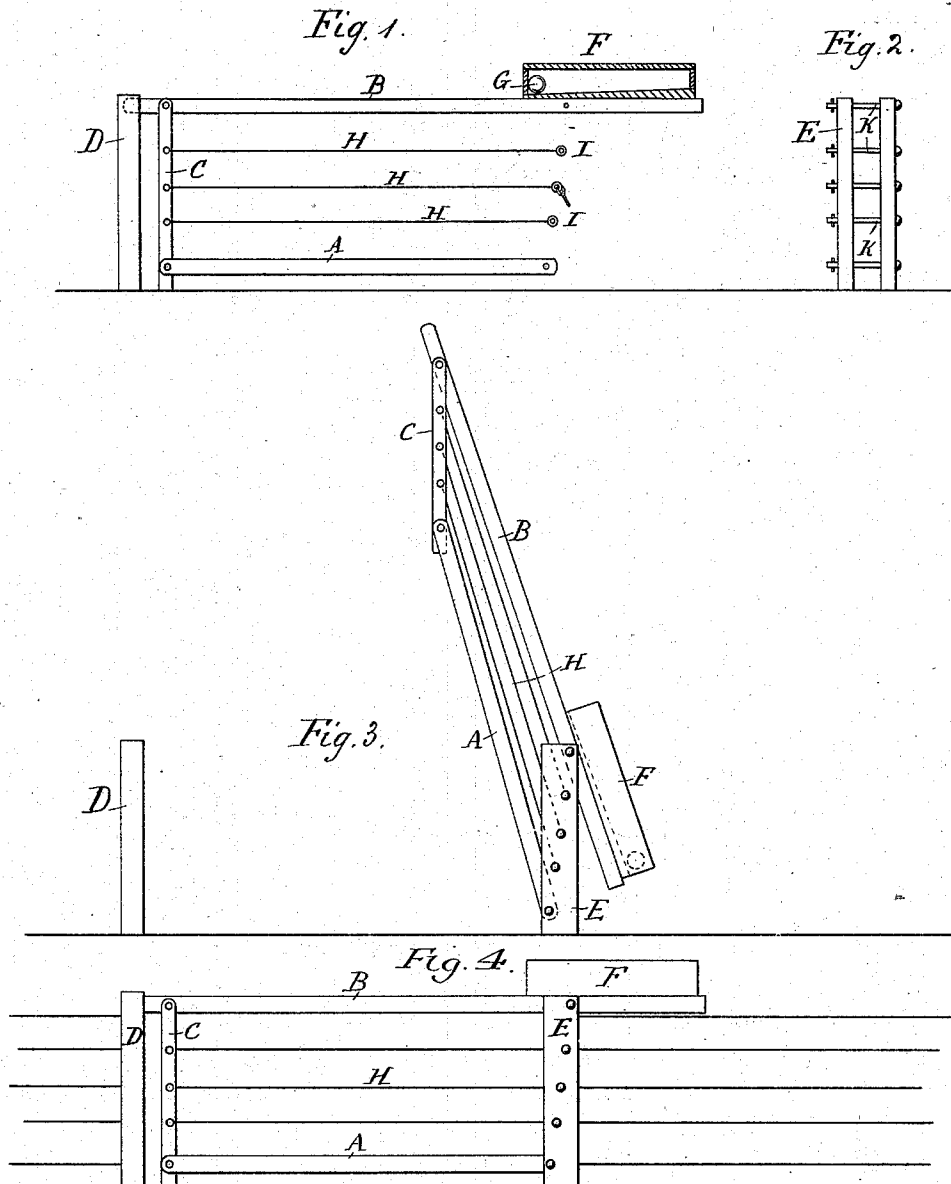
(No Model.)

J. N. McKAY.

GATE.

No. 289,433.

Patented Dec. 4, 1883.



WITNESSES:

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GATE.

SPECIFICATION forming part of Letters Patent No. 289,433, dated December 4, 1883.

Application filed April 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, JASPER N. MCKAY, of Grand Junction, in the county of Van Buren and State of Michigan, have invented certain new and useful Improvements in Gates, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates, especially, to gates employed upon farms, or where a large opening may be required through a fence, and has for its object the provision of a gate which is strong, light, durable, neat, and cheap, and which may be easily operated.

It consists, essentially, in a bottom and top rail, and an upright at the free end of the gate only, constructed of wood, the space between the bottom and top rail being crossed by light strong wires extending from the hinge-post to the upright of the gate-frame. The upper rail projects at the hinge end of the gate, and is provided with a box or case inclosing a ball of metal or other preferred material, which acts as a counter-balance in opening the gate or holding it closed; and my invention also involves certain other novel and useful combinations or arrangements of parts and peculiarities of construction and operation, all of which will be hereinafter first fully described, and then pointed out in the claim.

In the drawings, Figure 1 shows a gate in elevation before attachment to the double gate-post represented in Fig. 2. Fig. 3 shows the gate as opened, and Fig. 4 is a side elevation of the completed gate closed.

Like letters of reference, wherever they occur, indicate corresponding parts in all the figures.

A is the bottom rail of the gate, and B the top rail, both constructed of wood, and loosely pivoted to the upright end rail, C.

D is a post, against which the gate closes, top rail, B, extending sufficiently above or beyond upright C to enter a mortise or cleft in post D, holding the gate against lateral displacement when closed. The other extremity of rail B extends some distance beyond the double hinge-post E, and bears upon its upper

surface a box or case, F, wherein is placed an oblong cylinder or ball-weight, G.

H are wires, of any approved description, secured to upright C at one extremity, and provided at the other with thimbles I, to which they are securely fastened.

In placing the gate in position for use, rails A and B and thimbles I are passed between the two parts of post E, and bolts K passed therethrough.

The bottom of box F should slope slightly toward the gate, in order that the weight may always occupy the position shown in Fig. 1 when the gate is closed.

When constructed and arranged in accordance with the foregoing description, my gate may be easily opened, either by lifting at upright C or by any of the usual appliances for opening from a horse or vehicle without alighting therefrom, as the moment the bottom of box F is inclined outward weight G descends to the lower extremity thereof, destroying the balance of the gate and tilting it upward, as shown in Fig. 3; and as the rails and wires are attached to different parts of the post, the strain thereon is equalized, instead of depending upon two hinges.

I am aware that balanced gates made of slats of wood bolted together, and provided with a movable weight inclosed in a box or trough running along the top of the gate, have been employed, and to such a construction I make no claim; but,

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

In a gate, the combination of the top rail, B, bottom rail, A, end upright, C, wires H between said rails, attached at one extremity to upright C, and having at the other end thimbles I, through which extend bolts K, and the box F, the bottom whereof slopes toward the center of the gate, said box containing a cylindrical or ball weight, G, substantially as shown and described.

JASPER N. MCKAY.

Witnesses:

CHAS. LAYER,
E. W. CARPENTER.