

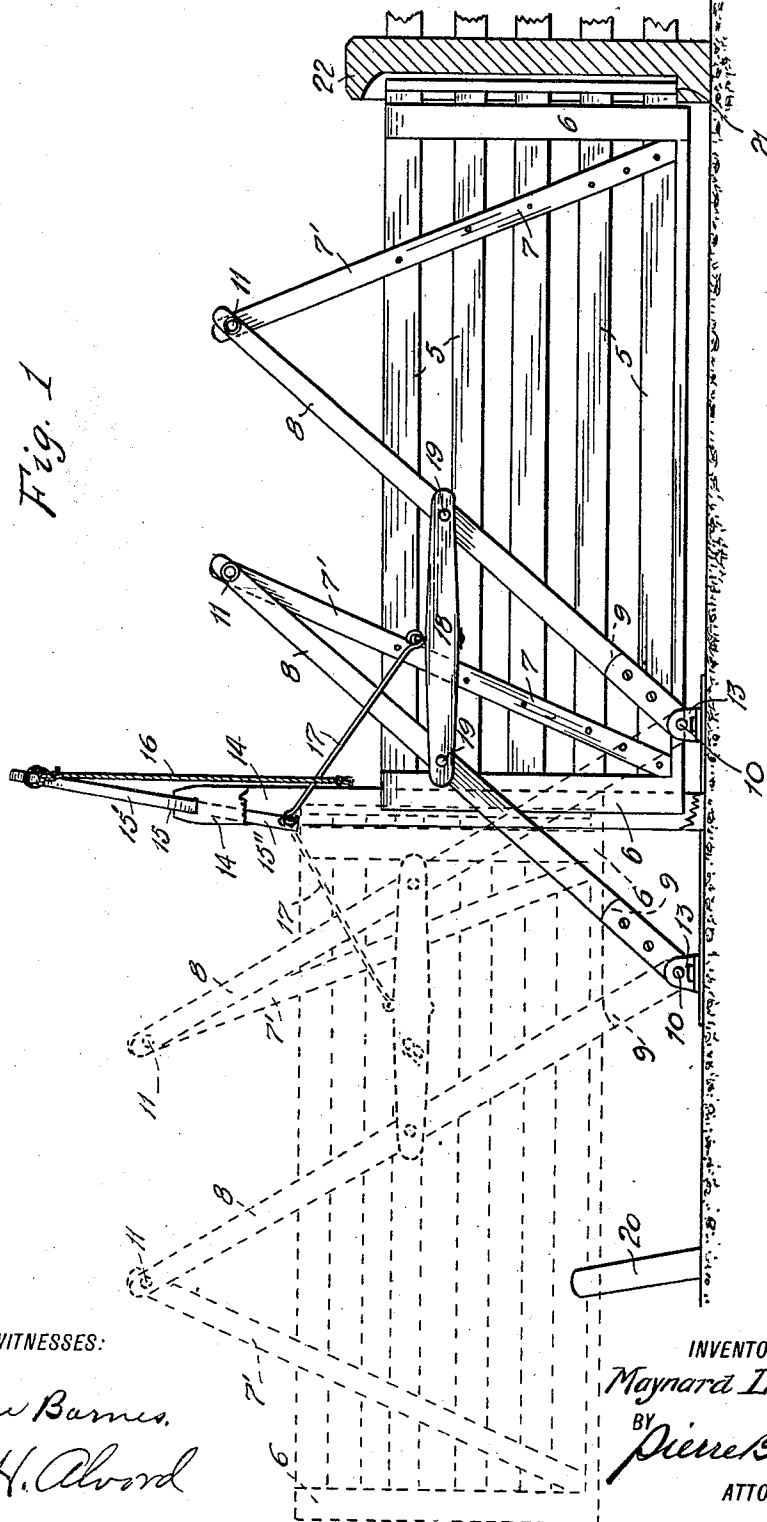
No. 860,926.

PATENTED JULY 23, 1907.

M. LOOMIS.
FARM GATE.

APPLICATION FILED DEC. 20, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

Horace Barnes.
E. H. Alvord

INVENTOR

Maynard Loomis

BY

Pierre Barnes
ATTORNEY

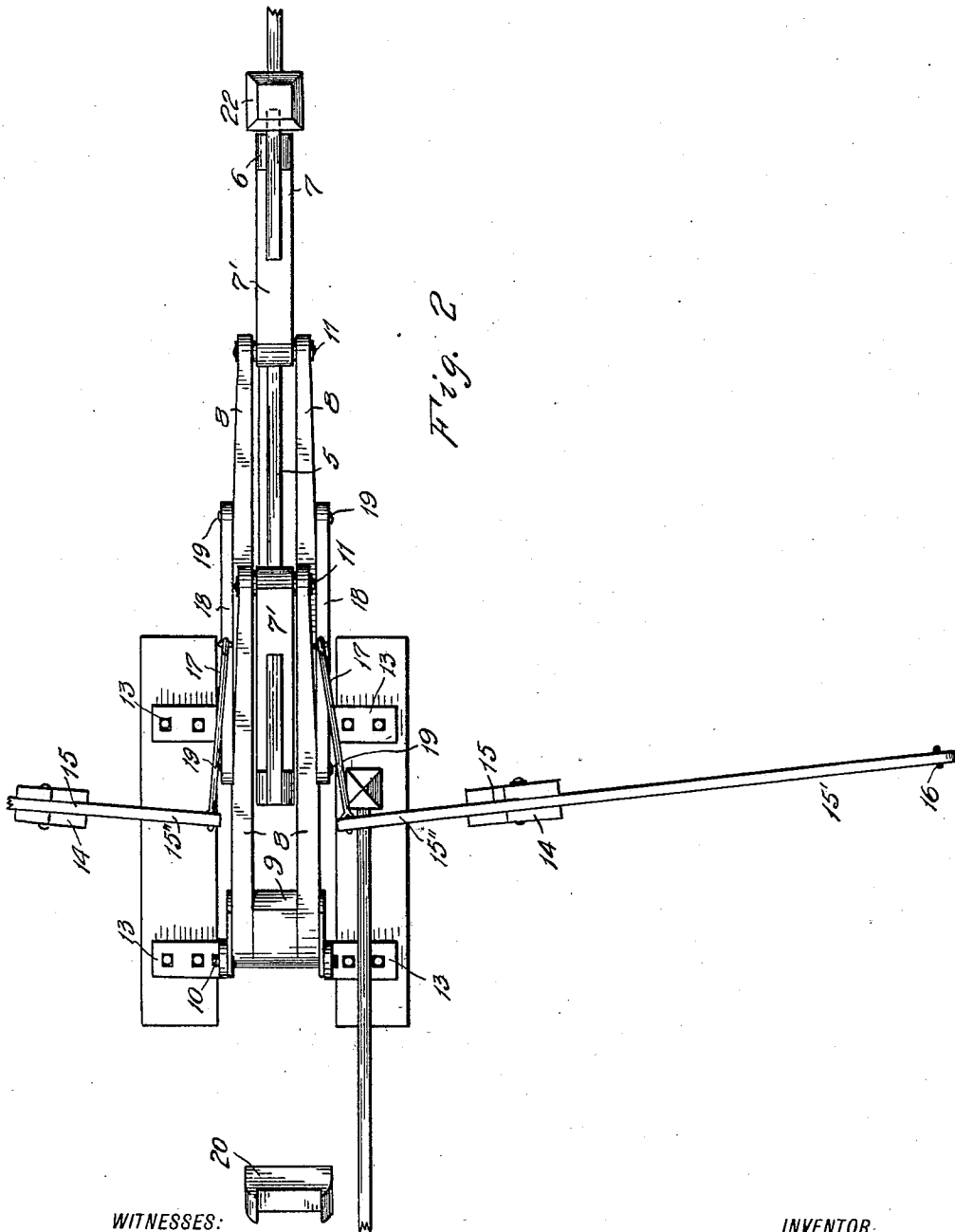
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UNITED STATES PATENT OFFICE.

MAYNARD LOOMIS, OF MOUNT VERNON, WASHINGTON.

FARM-GATE.

No. 860,926.

Specification of Letters Patent.

Patented July 23, 1907.

Application filed December 20, 1906. Serial No. 348,732.

To all whom it may concern:

Be it known that I, MAYNARD LOOMIS, a citizen of the United States, residing at Mount Vernon, in the county of Skagit and State of Washington, have invented certain new and useful Improvements in Farm-Gates, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in farm gates.

The object of this invention is the provision of a gate that in its normal closed condition will be rigid and secure, the movement of which will not be affected by deep snows, and which when in its open position will be reliably supported and protected from dislodgment by wind or stock.

Another object of this invention is to provide a gate and means to open the same with ease and by the occupant of a vehicle without his descending to the ground.

A further object is to provide a gate of this character which will be simple, strong and durable, will be inexpensive to manufacture and be well adapted to the purpose for which it is intended.

To these and other ends the invention consists in the novel construction, adaptation and combination of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a front elevation of a gate embodying my invention, shown in its closed state by full lines and in its opposite condition by broken lines; and Fig. 2, a plan view of the gate closed.

Similar reference characters indicate corresponding parts in both the views.

The gate proper consists of framework with horizontal bars 5, vertical members 6, and diagonal braces 7 of ordinary or suitable construction, except that in this instance the braces are prolonged, as at 7', to serve as hangers whereby the gate is suspended from the carrier arms 8. These arms are of equal lengths and desirably assembled in pairs which are respectively retained at proper distances apart by the intervening upper ends of said braces at the top and by separating pieces 9 between the lower ends of the respective pairs and are both separated sufficiently to insure the pairs of arms not interfering with gate when swung. Said distance pieces also serve to furnish additional bearings to the pivotal connections 10 about which the arms are oscillated and likewise serve as supplementary supports for the gate in its open and closed condition, as will presently appear. The upper ends of the respective pairs of arms are pivotally connected by pins 11 with the corresponding parts of said braces and by pivotal pins 10 extending through the lower ends of the arms with chairs 13. Said chairs are desirably of metal and are set to bring pins 11 thereof in the same horizontal plane and separated by an equal distance to

that between the pins 11 whereby, as is evident, the gate is maintained at all times horizontally through the said upper and lower pairs of pivotal pins being in parallel planes.

At some distance from the front and back of the gate are posts 14, to which are fulcrumed levers 15, so arranged that the longer, or handle ends 15' of each will be within convenient reach, or made so by the employment of attached lines 16, of a person upon the seat of a vehicle which is about to pass from either side through the gate opening. The other ends 15'' of the respective levers are connected by links 17 with bars 18 which in turn are connected, in proximity of their ends by pins 19, with the arms 8, and in parallel with the other pins extending through the upper and lower extremities thereof, as aforesaid. Said levers are so disposed, or at least their shorter arms 15'', to be at all times upon that side of the carrier arms toward which the gate is capable of being swung, and thus in pulling down upon the handle end of either lever the raising of the gate will be effected, through the medium of the actuating link, to the maximum height to which the gate can be swung and thence it will be carried by the momentum and the force of gravity to its seats upon the one hand or the other. These seats, as previously alluded to, are formed by the pieces 9 and the supplementary supports 20 and 21. Of the latter, 21 is desirably formed within the gate-post 22 into which the adjacent extremity of the gate also enters when closed, and the other support, 20, desirably a post, is positioned so as to receive the gate upon its top when open, as indicated with broken lines in Fig. 1.

For ease in effecting the closing of the gate the post support 20 is of greater height than is the other support upon which the weight of the gate is partially borne when closed as less effort is required to elevate it through the shorter distance through which it has to be raised in being swung beyond the highest point and which is not disadvantageous inasmuch as when open it is not essential that the gate should be in proximity of the ground as when in its other position.

It is thought that the operation of the device is sufficiently clear from the foregoing and it will be seen that the invention is extremely simple and in practice will work as efficiently as its simplicity suggests.

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

1. In combination with a gate, a pair of spaced braces secured to said gate and extending for a distance above the top side thereof, pairs of spaced parallel arms pivotally secured adjacent their upper ends to the upper ends of said projecting portions of said braces, means for pivotally mounting the lower ends of said arms, a horizontal bar pivotally connected at each of its ends to one of said arms, at points approximately central of the length of said arms, separating members between said arms of each pair said members serving as supports for the gate in open and

closed position, posts spaced from the gate and arranged on opposite sides thereof, levers pivoted to said posts, and diagonally disposed links connected to said levers and to said horizontal bars.

- 5 2. In combination with a gate, a pair of braces secured to said gate and extending thereabove for a distance, two pairs of arms arranged on opposite sides of the gate, said arms being diagonally disposed and pivotally secured to the upper ends of said braces, means for pivotally mounting the lower end of each arm, a horizontal bar pivotally
10 connected to each pair of arms, at points approximately

central of the length of said arms, a post on each side of the gate at a distance therefrom, levers pivotally secured to said posts, and links secured to the inner ends of said levers and to said horizontal bars at points approximately 15 central of the length thereof.

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

MAYNARD LOOMIS.

Witnesses:

W. C. SINGER,

B. R. SUMNER.