

No. 730,365.

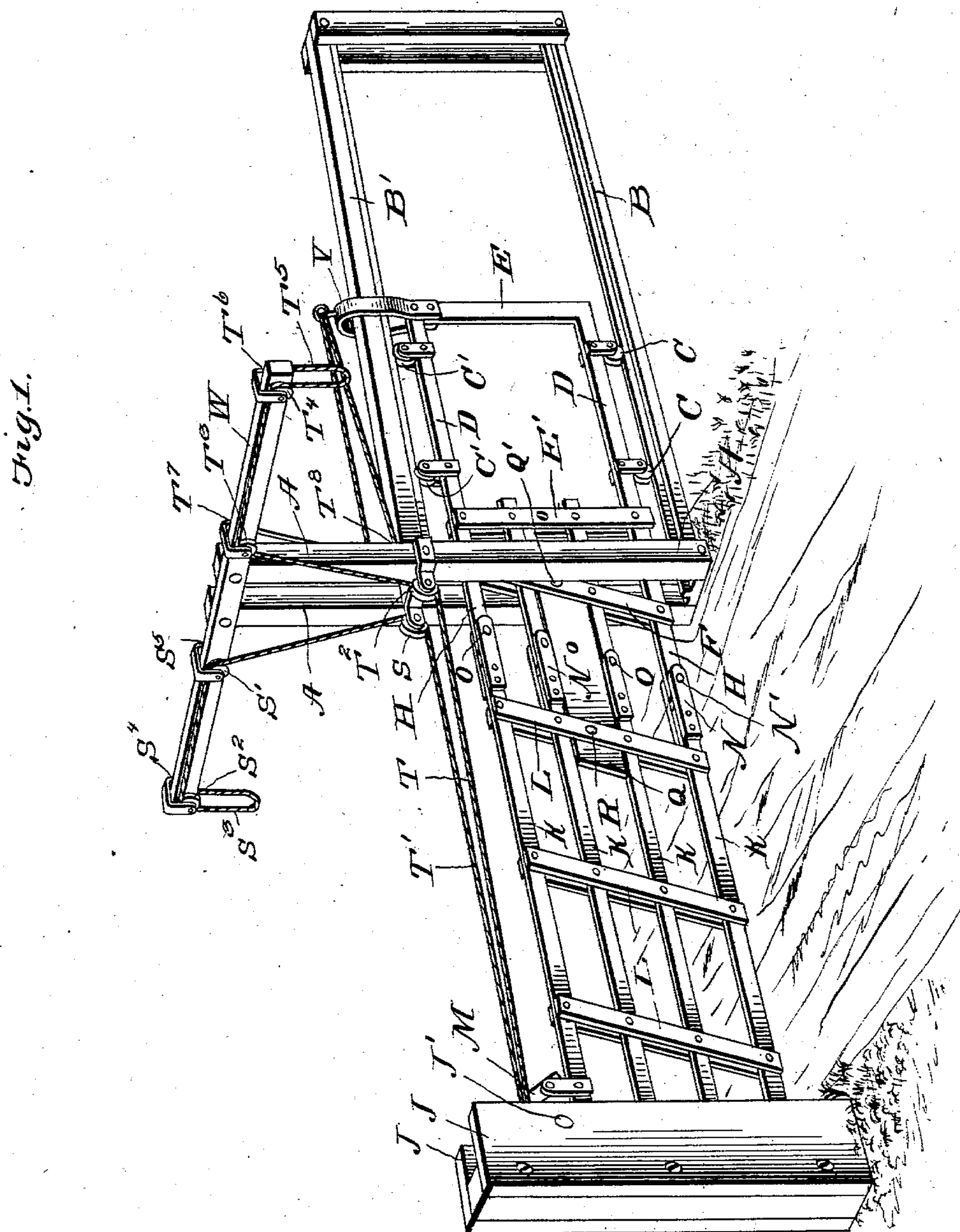
PATENTED JUNE 9, 1903.

E. GRAHAM.
FARM GATE.

APPLICATION FILED JAN. 6, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

R. A. Boswell.

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INVENTOR

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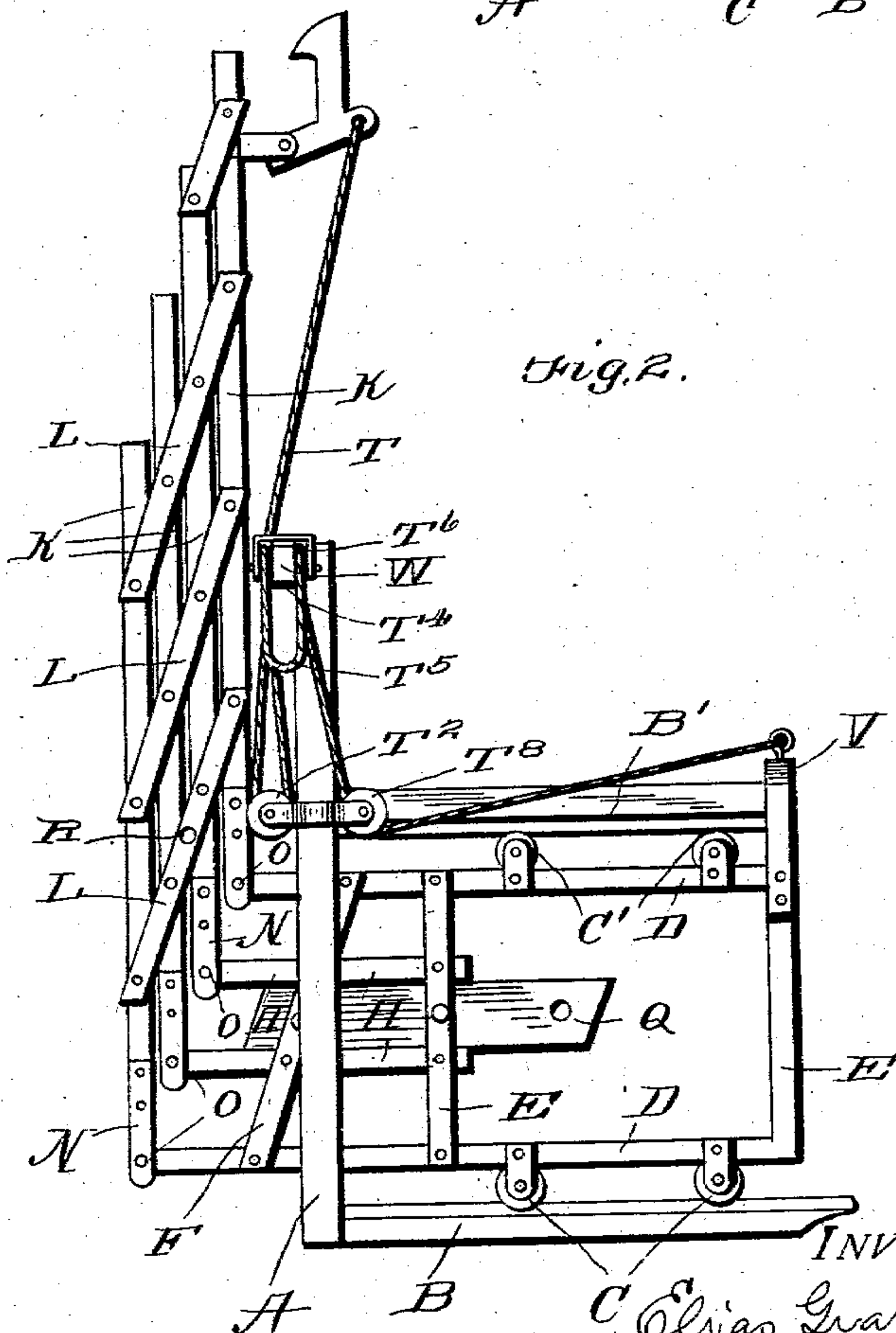
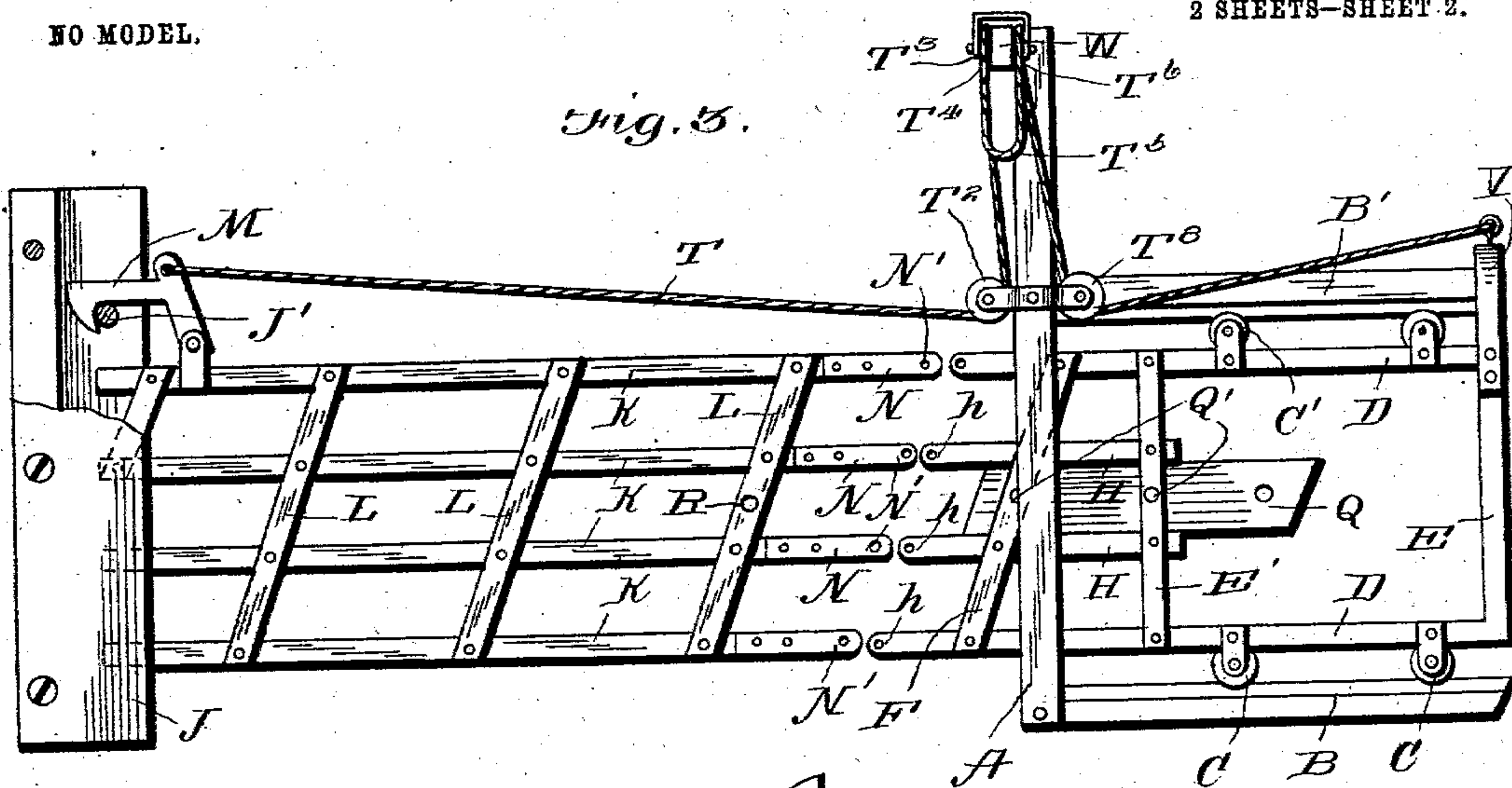
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UNITED STATES PATENT OFFICE.

ELIAS GRAHAM, OF CASEY, ILLINOIS, ASSIGNOR OF ONE-HALF TO OWEN C. FUQUA, OF CASEY, ILLINOIS.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 730,365, dated June 9, 1903.

Application filed January 5, 1903. Serial No. 137,902. (No model.)

To all whom it may concern:

Be it known that I, ELIAS GRAHAM, a citizen of the United States, residing at Casey, in the county of Clark and State of Illinois, have invented certain new and useful Improvements in Farm-Gates; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in gates, and especially in the provision of a sliding and folding gate, adapting the same for use in swinging when for any purpose the gate may be blocked or prevented from sliding by means of heavy snows; and it consists in various details of construction and combinations of parts which will be hereinafter fully described and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings—

Figure 1 is a perspective view of my improved gate, showing the same closed. Fig. 2 is a side elevation showing the gate in a raised or open position. Fig. 3 is a side elevation showing the vertically-swinging portion of the gate as detached from the sliding part.

Reference now being had to the details of the drawings by letter, A A designate two posts, between which tracks B and B' are mounted, on the former of which the rollers C travel and on the latter the pulleys C', which rollers are mounted upon hangers carried by the strips D. Cross-pieces E and E' connect said strips D.

A diagonally-disposed cross-piece F is fastened to the parallel stationary strips H of the gate, which strips H are of varying lengths and provided with apertures h in their ends, which project adjacent to said diagonally-disposed piece F.

The folding part of the gate comprises the parallel strips K, which are pivotally connect-

ed with the cross-pieces L, there being four of said cross-pieces shown as pivotally connected to the longitudinal strips of the gate. To the rear ends of said strips K are bolted or otherwise secured the plates N, one on either side of said strips, with the ends of said plates N projecting beyond the ends of the respective strips K, and registering apertures N' are formed in the projecting ends of the plates N, and bolts O are passed through the apertures n and N', forming pivotal pins on which the pivotal portion of the gate is mounted.

Mounted between any two of the longitudinal strips of the gate, preferably between the inner strips, is a locking-slide Q, which is apertured to receive pins Q', passing through apertures in the strips E' and F, Figs. 2 and 3, for the purpose of holding said slide from locking relation with the upright swinging portion of the gate. Said slide Q may be pushed forward so that one end thereof will engage a pin R, mounted in registering holes in one of the pivotal strips L of the folding portion of the gate, for the purpose of holding the forward part of the gate from folding when it is desired to utilize the same exclusively as a sliding gate; but for adjusting the gate to allow the forward end to fold said strip is slid back to assume the position shown in Fig. 2 of the drawings.

J J designate two vertical posts having a pin J' mounted between the same, over which pin a latch M, carried by the gate, is adapted to engage. Connected to the latch M are the ropes T and T', the former of which passes underneath a pulley T², thence up over a pulley T³, secured on the cross-piece W, connecting the upper ends of the posts A, and is horizontally disposed and passes over a pulley T⁴ at one of the ends of said cross-piece, and is then looped, as at T⁵, passes back over a pulley T⁶ on the rear face of said cross-piece W, thence over a pulley T⁷ on the rear face of one of the posts A, thence under a pulley T⁸, and is connected to the yoke V, which is fastened to the end piece E. The other rope, T', passes underneath a pulley S, carried by the upright A, thence up over a pulley S', over a pulley S², and after having a loop S³ formed therein the rope returns

over a pulley S⁴, thence over a pulley S⁵ on the rear of post 8, thence down underneath a pulley S⁸, and is connected at its end to said yoke V.

5 In operating the gate the operator may approach the same from either direction, and in case the gate is closed the portion of the loop of the rope nearest the latch is pulled upon, which will cause the latch to be raised
10 and the gate slid back and opened. When it is desired to close the gate, the operator pulls on the rear portion of the loop, and the gate will be closed and automatically locked by the gravity-latch. In case it is desired to
15 fold or swing the gate to a vertical position, as illustrated in Fig. 2 of the drawings, which may be necessary in case of heavy snows blocking the sliding movement of the gate, this folding of the gate in an upright position
20 is accomplished by first removing the pins R from registering apertures in the cross-pieces L and locking-strip Q and then sliding the latter back from engagement with the folding portion of the gate, after which the gate
25 may be raised, as shown in Fig. 2 of the drawings.

While I have shown a particular construction of gate embodying my invention, it will be understood that I may make alterations
30 in the detailed arrangement of parts without departing from the spirit of my invention.

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

35 1. In combination with the upright posts, the guide-tracks between the same, a sliding-gate section mounted between said tracks, vertically-folding gate-sections connected to said sliding section, and a locking-plate connecting said sliding and folding sections of
40 the gate in alinement with each other, a latch, and rope and pulley connections therewith,

whereby the gate may be opened and closed, as set forth.

2. In combination with the upright posts, 45 tracks mounted between the same, a sliding gate having parallel strips carrying wheels adapted to travel upon said tracks, a yoke secured to said sliding section of the gate passing over one of said tracks, a folding section 50 of the gate connected to the sliding section, a locking-plate fastened at its ends to said sliding and folding sections of the gate to hold the same in alinement, a pivoted latch carried by the folding section of the gate, a 55 rope connected to said latch, pulleys upon said upright, a cross-piece connecting the uprights, pulleys carried thereby, over which said rope passes, pulleys on the rear faces of said cross-piece and one of the uprights over 60 which said rope passes, and a pulley adjacent to the upper of said tracks under which the rope passes, said rope being fastened to said yoke, as set forth.

3. In a gate, the combination of parallel 65 tracks, a vertical post on either side thereof, a sliding section of a gate mounted between said tracks having parallel gate-strips of varying lengths, apertures in the forward end thereof, a folding-gate section having longitudinal strips of varying lengths, plates se- 70 cured to the rear ends of said folding-gate strips, and pins passing through registering eyes in said plates and in the eyes at the ends of the strips of the sliding-gate section, a 75 latch, and rope and pulley connections for raising the latch and opening and closing the gate, as set forth.

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

ELIAS GRAHAM.

Witnesses:

JOHN CARR,
JOHN WILEY.