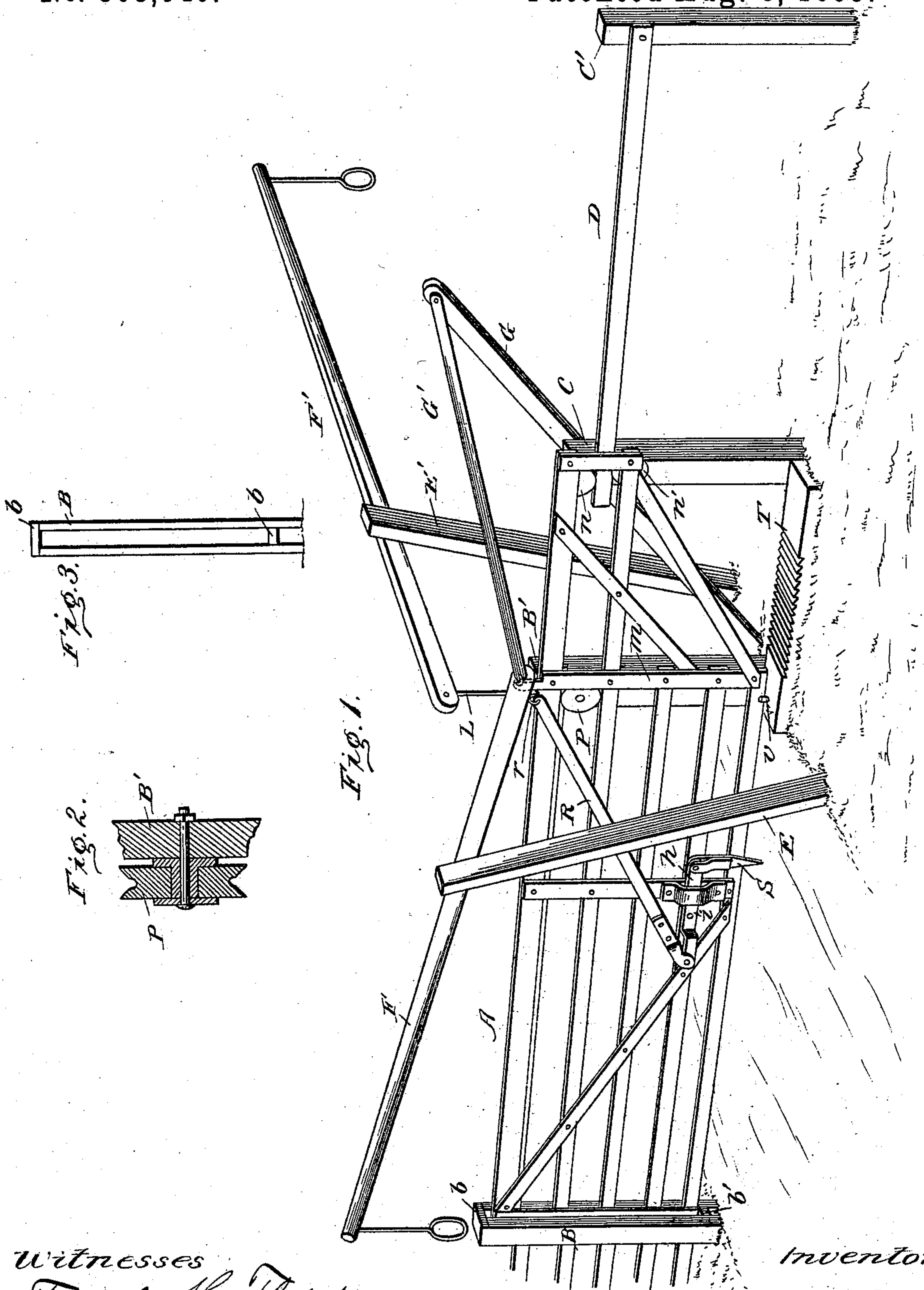


(No Model.)

S. F. FAUCETT.
SLIDING GATE.

No. 503,040.

Patented Aug. 8, 1893.



Witnesses
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UNITED STATES PATENT OFFICE.

SOLOMON F. FAUCETT, OF SAYBROOK, ILLINOIS.

SLIDING GATE.

SPECIFICATION forming part of Letters Patent No. 503,040, dated August 8, 1893.

Application filed April 18, 1893. Serial No. 470,872, (No model.)

To all whom it may concern:

Be it known that I, SOLOMON F. FAUCETT, a citizen of the United States of America, residing at Saybrook, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Sliding Gates, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to gates, and belongs to the class known as "sliding gates."

The object of my invention is to enable the operator to work the gate off the central position when it has been arrested at that point, and to provide means for securing the gate when closed.

In the accompanying drawings: Figure 1 is a perspective view of my improved gate. Fig. 2, is a fragmentary view, showing the manner of attaching pulley P to post B'. Fig. 3 is a detail showing the two-part post B.

Referring to the several parts by letters of reference: A, indicates the gate proper; B B', the posts on each side of the gateway; C C', posts to the rearward of the gateway, supporting a rail D, upon which the rear part of the gate rides.

E E', are supports for the hand levers F F'.

G, is a brace connected with the lever F, by means of a rod G', the lever F being connected to the lever F' by means of a link L. To one of the longitudinal slats, preferably the second one from the bottom, I pivot a lever h, at i; and to one end of the lever h, I connect a rod R, the other end of the rod being secured to the end of the lever F by an eyebolt r, or other appropriate means, and to the opposite end of the lever h I attach a pawl S, the object of which will be presently described.

At one end and extending from the post B' to the post C, I place a block T with a series of inclined teeth formed upon its upper face. Upon one side of the post B', I secure a pulley P, (see Fig. 2) in the groove of which rides the upper slat of the gate, and near the end of this slat, and in the one beneath, I journal pulleys n n'; these pulleys take the rail D upon both sides, and guide the gate in its movement back and forth across the gateway.

The form of the pulley grooves is shown in Fig. 2. The gate is latched when closed, by

the end of lever F dropping behind the projecting end of the vertical slat m. When the gate is closed, the forward end rests in a vertical opening in the post B, which may be formed by making the post of two separate pieces, uniting them at the top and bottom, or by attaching facings to the sides which shall project far enough to receive the end of the gate or in any other suitable way; the drawings show the post as made of two parts and united at the top and bottom by cross-pieces b b'.

The operation of the gate is as follows: Upon either of the hand levers F or F' being drawn down at the free ends, the rod R will be drawn to an approximately vertical position, which will tend to open or close the gate; if the gate is closed, the rod R extending in a forward direction will open the gate about half way; and if the gate is open, it will close it to the same extent; this is supposing, however, that the levers F F', are not given a sudden pull, for in that case the momentum of the gate will carry it past its mid-length and entirely open or close it; but, should the levers F F', not be pulled with sufficient force or suddenness to carry the gate beyond its mid-length, the pawl S, will fall into the teeth of the block T, and will incline thereto in the direction in which the gate is moving, so that by working the levers F or F', the pawl will be caused to engage a tooth in advance at each operation and thus carry the gate over the central position.

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

The combination of the gate and the hand levers, and a lever pivoted on the side of the gate and carrying an operating pawl, and connected to the hand levers by a suitable rod, with a tooth block adapted to engage the pawl, in the manner set forth and for the purpose specified.

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

SOLOMON F. FAUCETT.

Witnesses:

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