(No Model.)

S. E. MILLER.

GATE.

No. 317,405. Patented May 5, 1885.

Fig. 1.

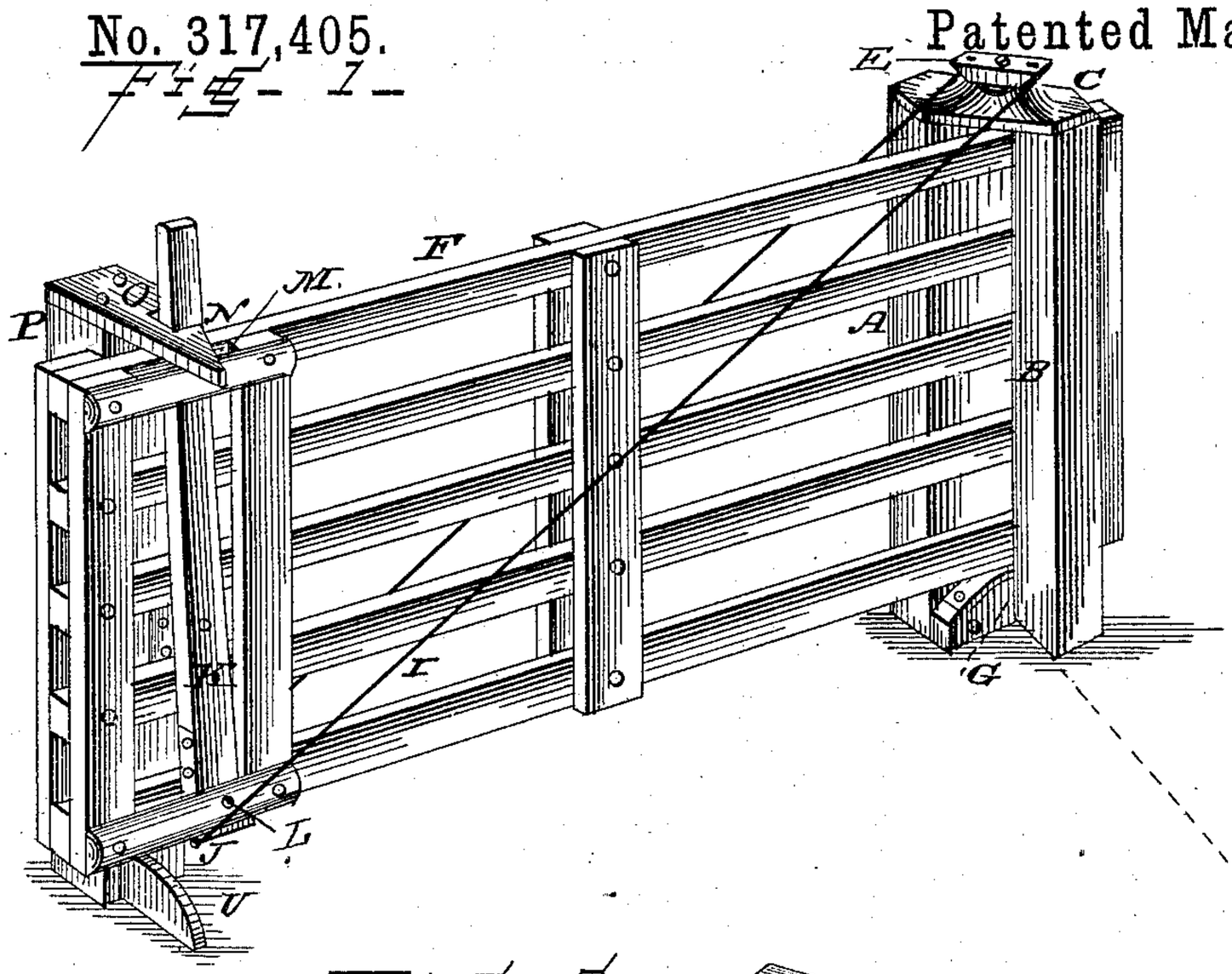


Fig. 5.

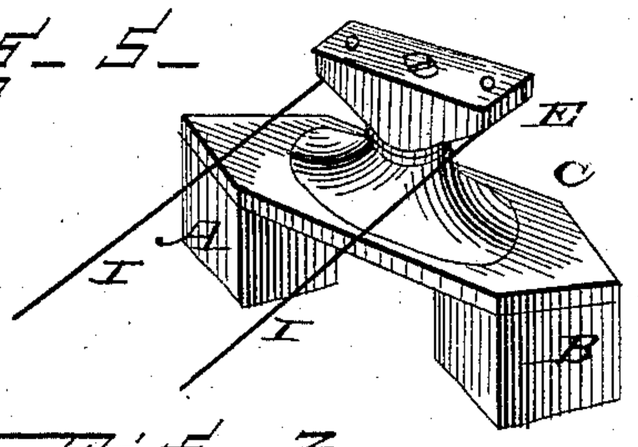


Fig. 2.

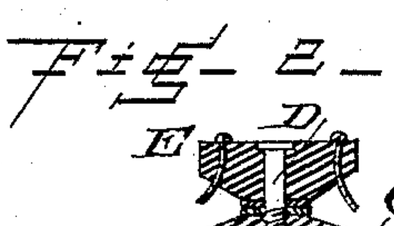


Fig. 3.

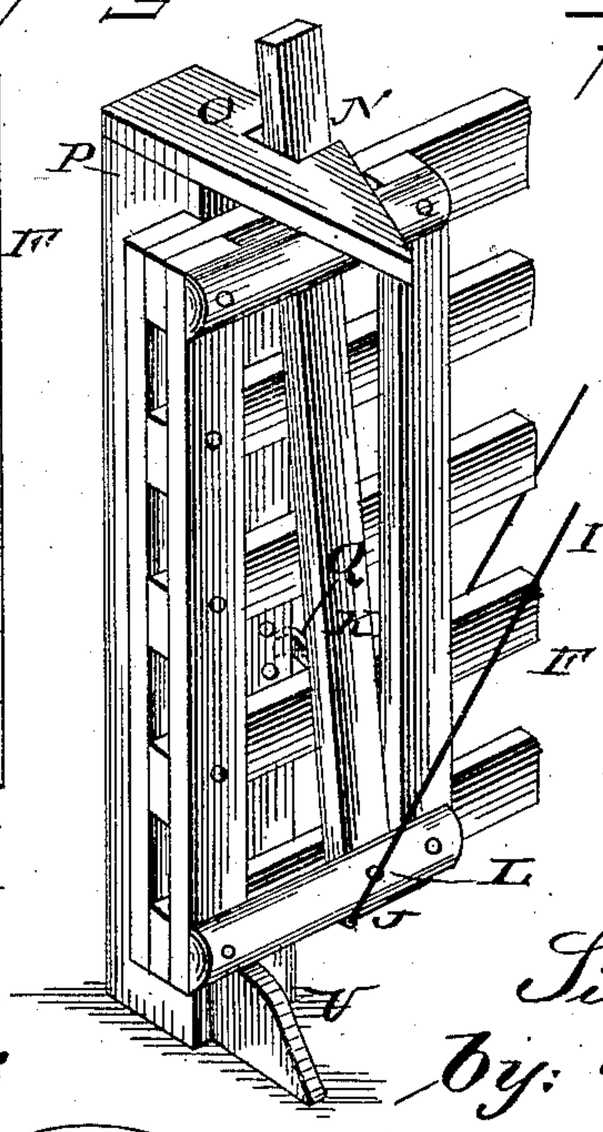
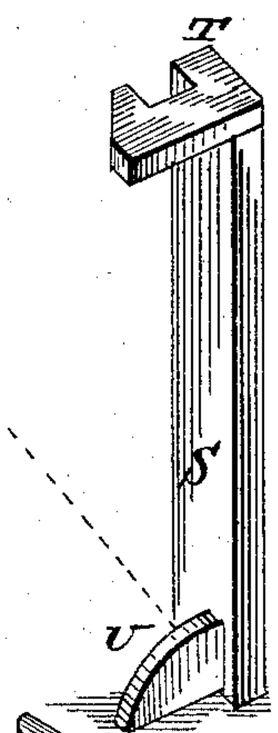
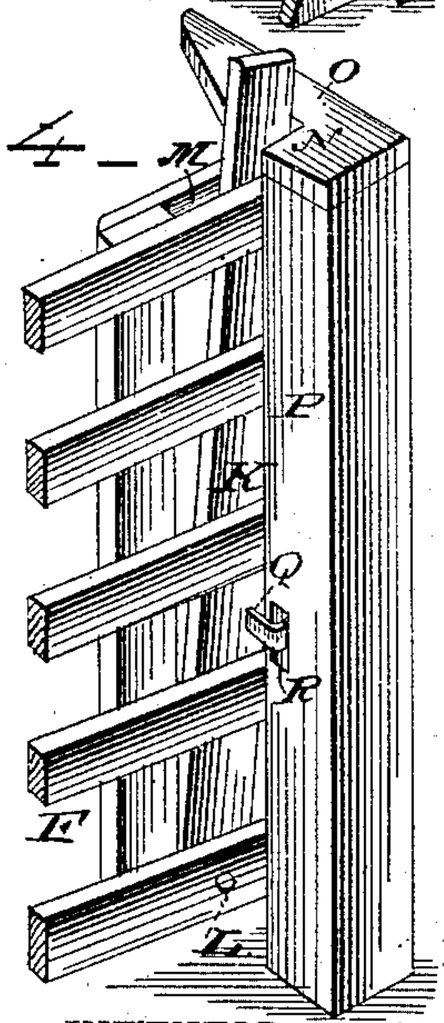


Fig. 4.





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UNITED STATES PATENT OFFICE.

SILAS ELIOTT MILLER, OF AINGER, OHIO.

GATE.

SPECIFICATION forming part of Letters Patent No. 317,405, dated May 5, 1885.

Application filed May 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, SILAS E. MILLER, a citizen of the United States, and a resident of Ainger, in the county of Williams and State of Ohio, have invented certain new and useful Improvements in Gates; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved gate, showing it closed. Fig. 2 is a cross-section through the hinge-posts. Fig. 3 is a detail view of the gate-latch. Fig. 4 is a similar view of the other side of the latch; and Fig. 5 is a detail view of the turn-button at the top of the hinge-posts, in which the upper ends of the wire brace are fastened.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to swinging gates; and it consists in the detailed construction and combination of parts of a gate of that class, as will be hereinafter more fully described and claimed.

In the accompanying drawings, A and B are the hinge-posts, which are connected at their upper ends by the cross-head C, into the middle of which is inserted the screw-stem D of the brace-button E. F is the gate, one end of which is inserted between the hinge-posts, bearing with its lower end against a block, G, in which it is pivoted by the pivot H, thus enabling it to swing freely upon its pivot at an angle of ninety degrees between the hinge-posts. The free end of the gate is supported by the wire brace I, which is inserted through the eye J, and passes up, on opposite sides of the gate, to the button E, in which the ends are fastened.

Sagging of the gate may be relieved by shortening the wires in their fastenings in the button, which will raise the free end of the gate, so as to allow it to swing at its proper height. The latch consists of the bar K, which is hinged at L in the lower part of the gate, and is provided with the eye J at its lower end, its upper end passing through a slot or opening, M, limiting its movement. The projecting upper end of the latch-bar K is adapted to engage a notch, N, in an arm, O, projecting at right angles from the top of the latch-post P; and bar K is further provided with a projecting catch, Q, adapted to engage a mortise or recess, R, in the latch-post. The stop-post S is provided with a similar notched projecting arm, T, adapted to engage the upper end of the latch-bar when the gate is swung open; and both the posts P and S have at their lower ends inclined steps or blocks U, which the free end of the gate will strike in opening or closing it.

From the foregoing description, taken in connection with the drawings, the operation of my improved swinging gate will readily be understood without requiring extended explanation. With the exception of the pivot H, there are no hinges, and sagging of the gate is readily corrected simply by shortening the wires. When the gate is closed, it is locked by the latch-bar K engaging the notched arm O, and also by the catch Q engaging the mortise R in the latch-post, so that it cannot be opened by cattle, or become accidentally unlocked, and in tilting back the latch-bar the wires are tightened, raising the outer end of the gate, so as to allow it to swing free of the stops.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination of the latch-post having the notched arm at its upper end, the mortise in its side, and the inclined step at its lower end, the gate pivoted at one end, the latch-bar pivoted at its lower end in the lower part of the gate and having the eye J at its lower end, and the catch Q, and the brace-wires passing from the top of the hinge-post through the eye J, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

SILAS ELIOTT MILLER.

Witnesses:

FRANK F. WATERSTON,

SIMON WATERSTON.