

(No Model.)

P. C. CESSNA.

GATE.

No. 319,193.

Patented June 2, 1885.

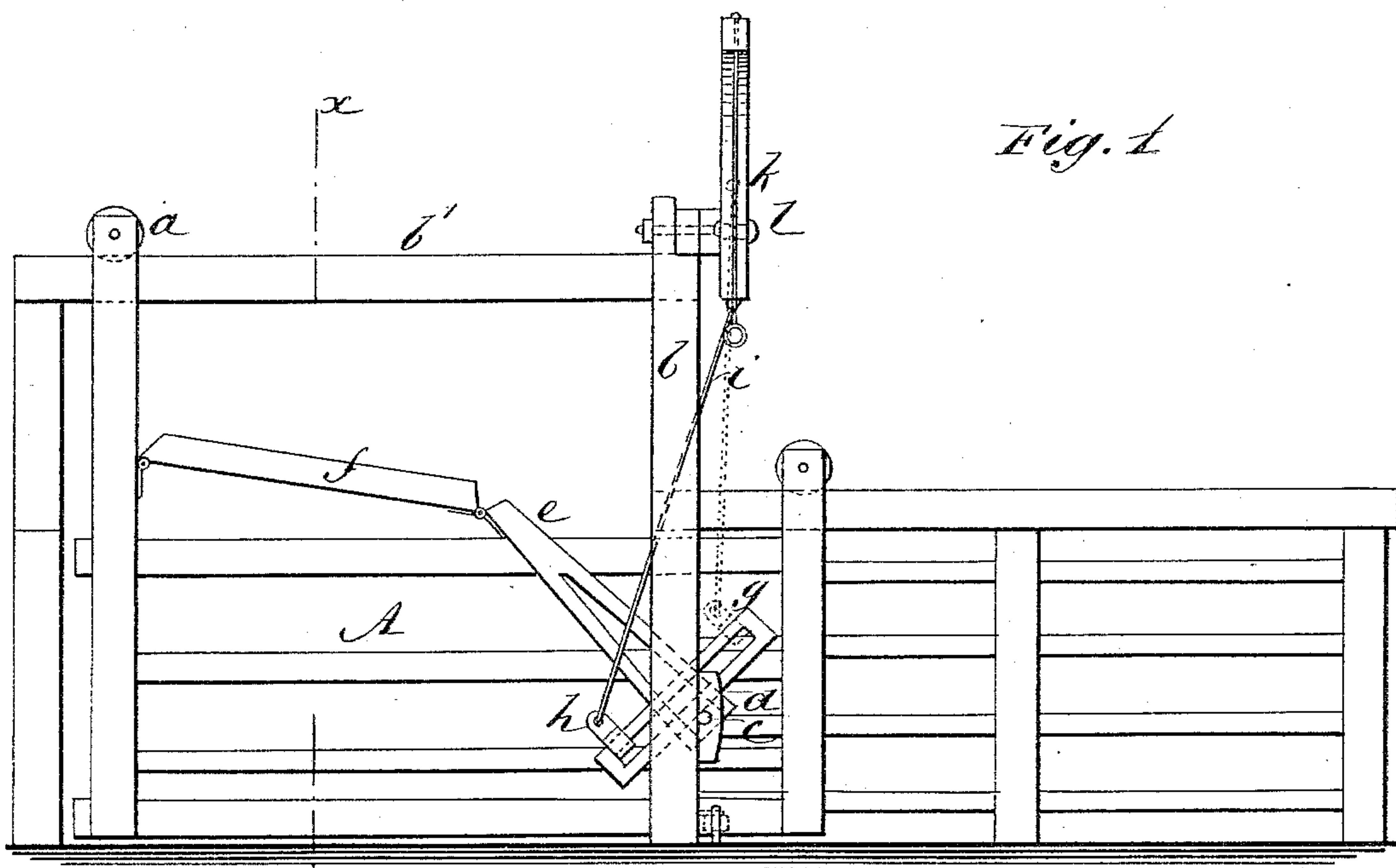


Fig. 1

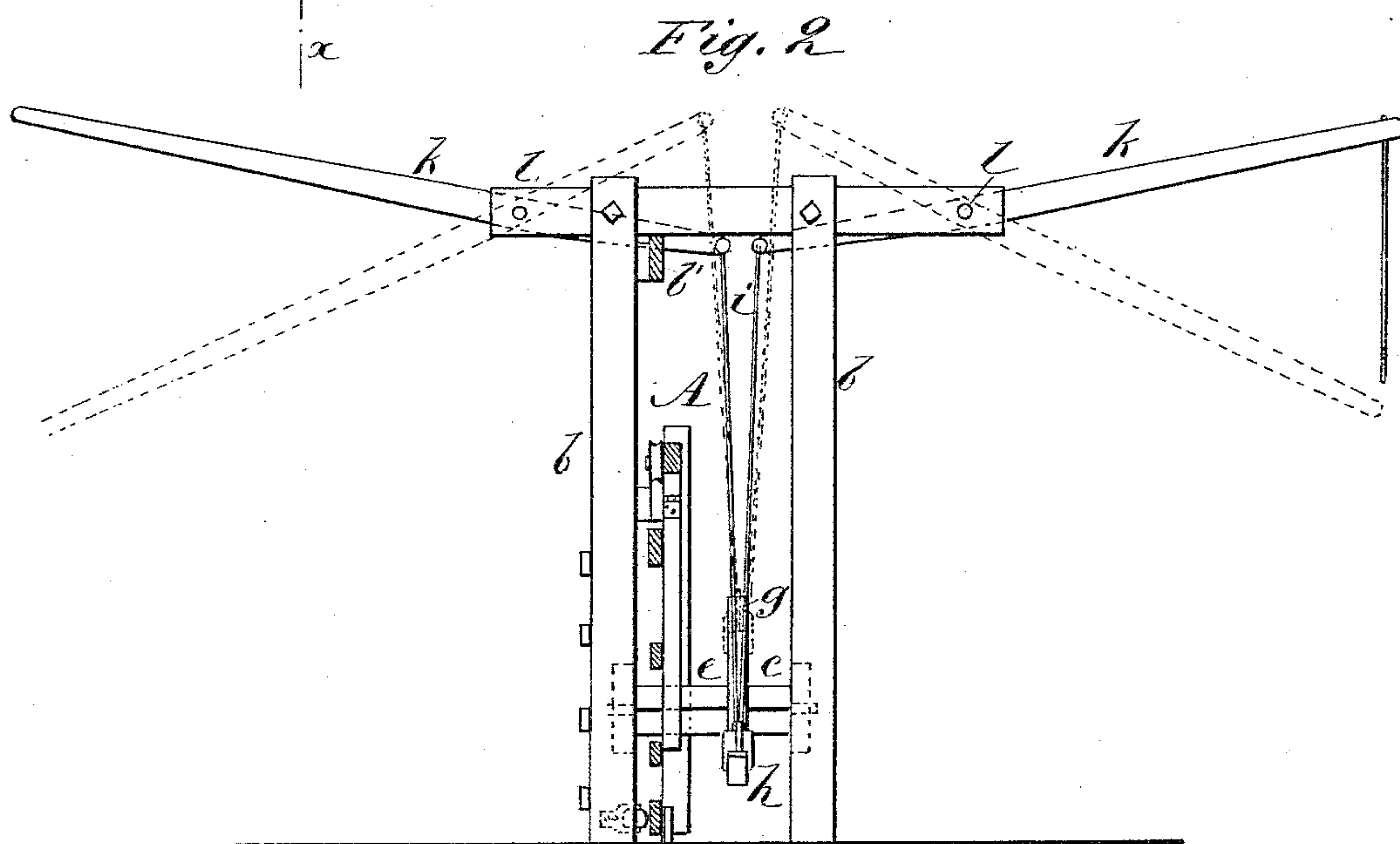


Fig. 2

WITNESSES:

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# UNITED STATES PATENT OFFICE.

POLLIE C. CESSNA, OF MACON CITY, MISSOURI.

## GATE.

SPECIFICATION forming part of Letters Patent No. 319,193, dated June 2, 1885.

Application filed October 22, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, POLLIE C. CESSNA, of Macon City, in the county of Macon and State of Missouri, have invented a new and useful  
5 Improvement in Gates, of which the following is a full, clear, and exact description.

My invention relates to devices for opening and closing gates; and it consists in a combination of levers with a rock-shaft provided with  
10 a slotted arm, to which the levers are connected by a slide-piece, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in  
15 which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side view of a gate with my improvements applied, and Fig. 2 is a transverse section on line *xx* of Fig. 1.

20 The gate *A*, as shown, is supported by a roller, *a*, on a track, *b'*, above the gate opening, and at its back end by a similar roller taking on the top rail of the fence; but it may be hung to slide in any desired manner. On  
25 the two back posts, *b*, a rock-shaft, *c*, is supported in bearings *d*, and a rigid arm, *e*, on the shaft is attached by a hinge at its outer end to a bar, *f*, that in turn is hinged to the forward stile of the gate in such a manner  
30 that the partial turning of the shaft effects the movement back and forth of the gate by the swing of arm *e*. The shaft *c* is also provided with a cross-arm, *g*, slotted to receive a sliding collar or piece, *h*, and the latter is con-  
35 nected by rods *i i* to the inner ends of the

levers *k*, which are hung by pivots *l* on supports projecting from posts *b*. The levers extend at opposite sides of the gate a suitable distance, and they are either placed at a height to be grasped from a carriage or they may  
40 have ropes suspended from their outer ends.

With the gate either open or closed the cross-arm *g* is nearly vertical and the slide *h* is at the lower end of the arm, the levers, therefore, being at their highest position. By  
45 pressing down the outer end of either lever the slide *h* grips the arm *g* and raises it, so that the shaft is rocked and the gate fully opened and closed. This reverses the position of arm *g*, so that slide *h* is at the top, and  
50 on the lever's being let go the weight thereof carries the slide down to the bottom again and raises the levers to position for again moving the gate.

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

1. The combination, with a sliding gate, of the rock-shaft *c*, having connections to the gate for moving it, the cross-arm *g*, slide-  
60 piece *h*, rods *i*, and levers *k*, substantially as described.

2. The combination of rock-shaft *c*, sliding clamp *h*, cross-arm *g*, arm *e*, jointed bar *f*, rods  
65 *i*, and levers *k* with a sliding gate, substantially as described, for operation as specified.

POLLIE C. CESSNA.

Witnesses:

N. S. RICHARDSON,  
H. NOTTINGHAM.