

(No Model.)

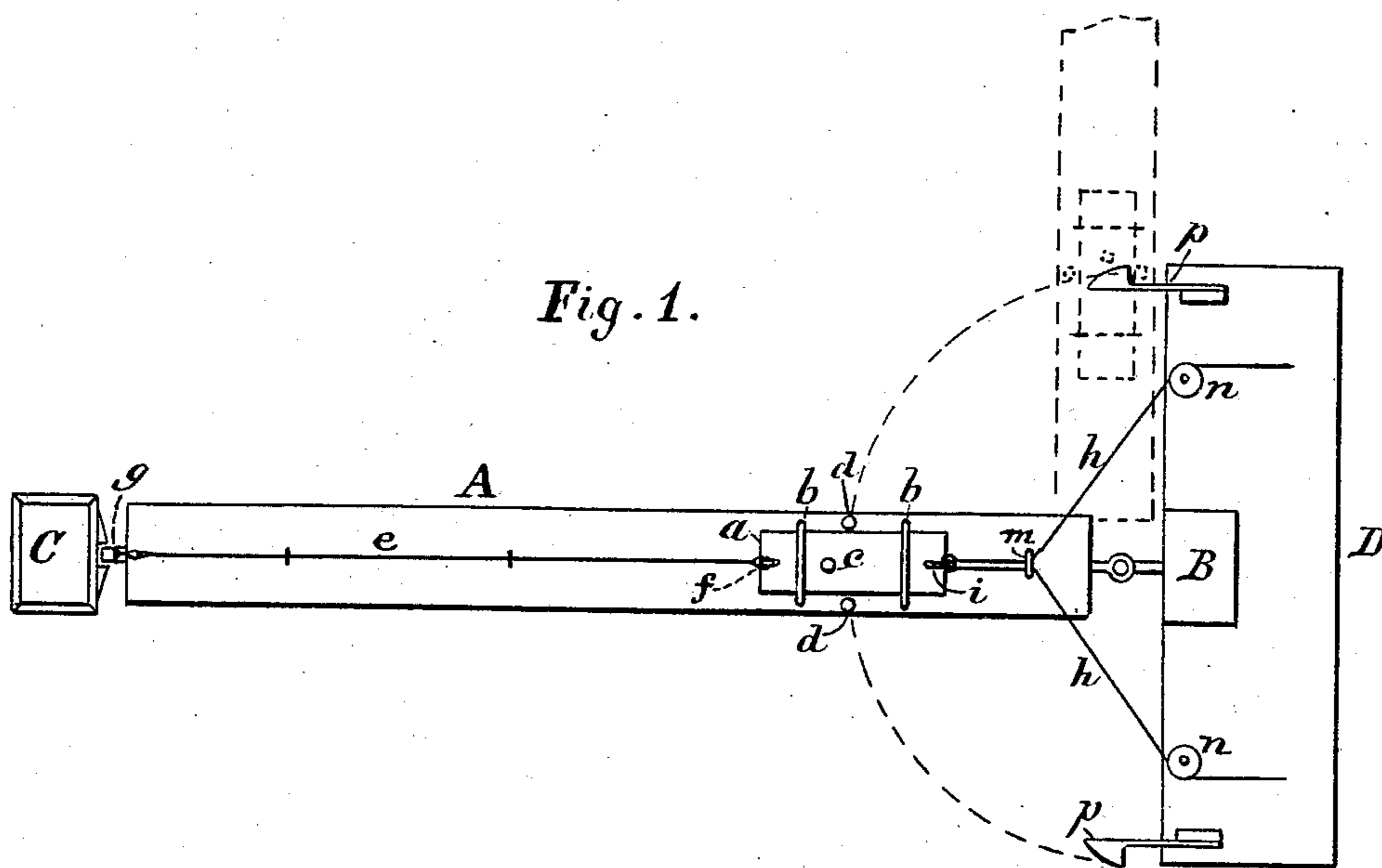
W. H. TUPPER.

GATE.

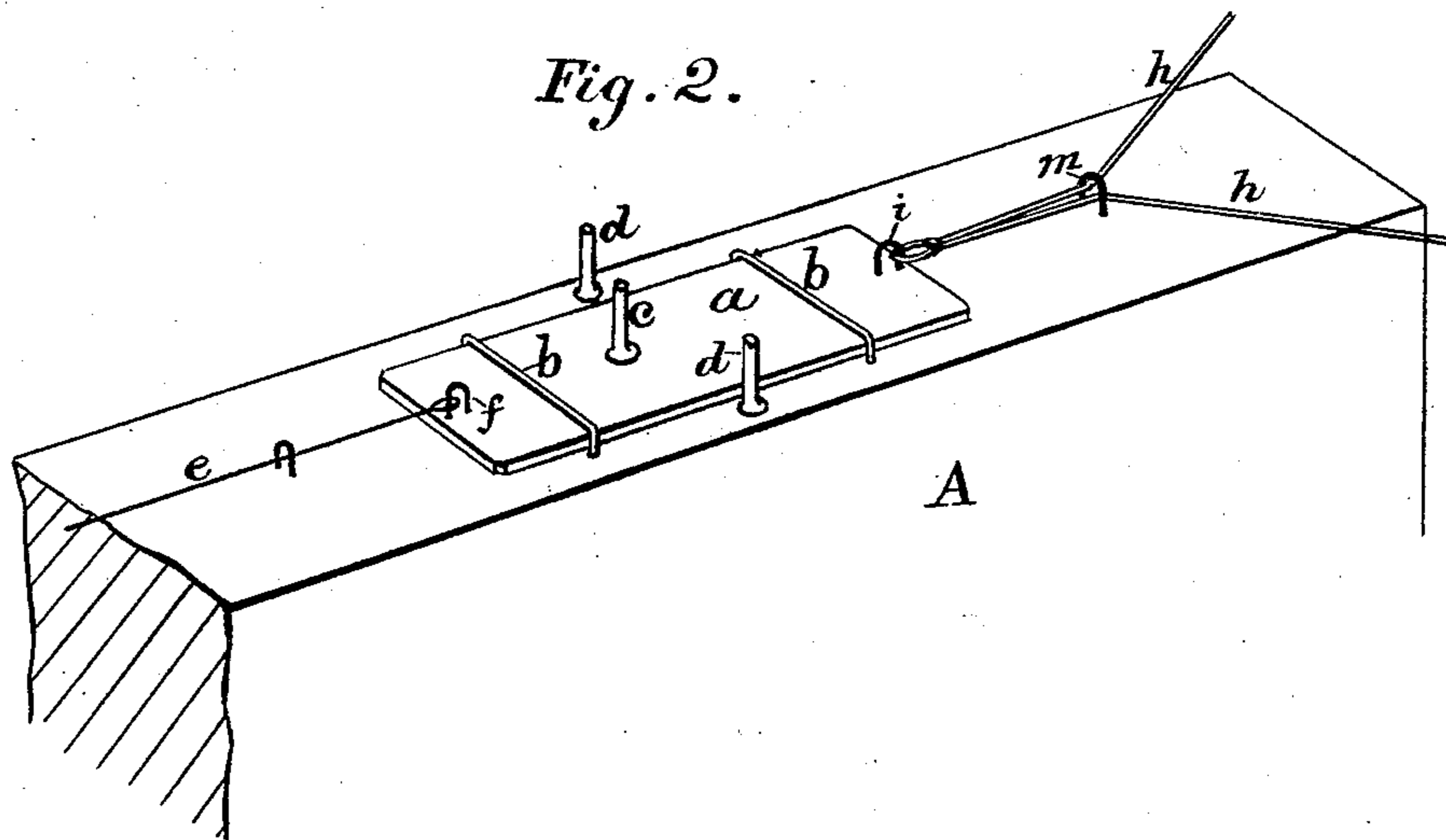
No. 254,073.

Patented Feb. 21, 1882.

*Fig. 1.*



*Fig. 2.*



Witnesses :  
E. H. Bradford  
Wm. A. Craig

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# UNITED STATES PATENT OFFICE.

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## GATE.

SPECIFICATION forming part of Letters Patent No. 254,073, dated February 21, 1882.

Application filed October 27, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. TUPPER, a citizen of the United States, residing at St. Johns, in the county of Clinton and State of Michigan, have invented certain new and useful Improvements in Automatic Gates; and I do hereby 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 or figures of reference marked thereon, which form a part of this specification.

This invention relates to automatic gates; and it consists in a certain improvement in the construction of the same, as hereinafter shown and described.

In the accompanying drawings, Figure 1 represents a plan or top view of a gate with my improvements. Fig. 2 is a partial view in perspective of the top of the gate.

In said drawings, A designates the gate, which is hinged to the post B in such a manner as to open in either direction.

C indicates the latch-post, provided with a recess or notch to receive the spring-latch of the gate when it is closed.

D is a platform, which is usually on the same level with the top of the gate and made fast to the post B.

On the top of the gate is placed a sliding plate, *a*, the same being kept in position by guides or staples *b*, under which the plate moves, as hereinafter stated. To the said plate *a* is firmly fixed a vertical pin, *c*, and two other upright pins, *d*, are fixed in the top of the gate, one on each side of the plate *a*, as shown. A wire, *e*, fastened to a staple, *f*, at one end of the plate *a*, connects the plate with the spring-latch *g*, attached to the gate at its fastening end. The cords *h*, fastened to a staple, *i*, fixed to the opposite end of the plate, pass through a staple, *m*, in the top of the gate, and, diverging, pass about the pulleys *n*, the latter being in horizontal positions on the platform D, as shown. These cords *h* are usually provided

with suitable means for severally drawing them for the purpose of opening the gate in one direction or the other, as desired.

Two spring-latches, *p*, are fixed to the platform D, and are so constructed and arranged that when the gate is thrown open in either direction one of the vertical pins *d* impinges against a latch, *p*, and is caught by the latch, so that the gate is held open.

As will be seen, the drawing of a cord, *h*, withdraws the spring-latch *g* from post C, and also opens the gate, the same being detained, after being opened, by means of a latch, *p*, and a pin, *d*. To release the gate from latch *p* in closing the proper cord, *h*, is pulled, usually by means of a lever, which draws the slide *a* and brings the pin *c* in contact with latch *p*, pressing it from pin *d*, and the gate then is closed by its own gravity, being hinged and constructed to close automatically. When the gate reaches the post C in swinging around the latch *g* springs into the notch or recess in the post in a manner well known, and also draws the slide *a* to its proper place.

The means of operating the cords *h* may be such as are employed in the device shown in United States Patent No. 243,660, dated June 28, 1881.

I claim—

1. A gate having a sliding plate, *a*, provided with the fixed pin *c*, in combination with the pins *d* and the spring-latches *p*, the parts being constructed and secured in position substantially as and for the purposes described.

2. In a gate, the sliding plate *a*, having the fixed pin *c*, and moving in guides, in combination with the spring-latch *g*, the vertical pins *d*, pulleys *n*, and spring-latches *p* on platform D, the plate being provided with connections *h* and *e*, substantially as set forth.

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

WILLIAM H. TUPPER.

Witnesses:

J. F. SHRAFT,  
C. WATERS.