

Raymond & Miller,

Gate Spring.

N^o 55,906.

Patented June 26, 1866.

Fig. 1

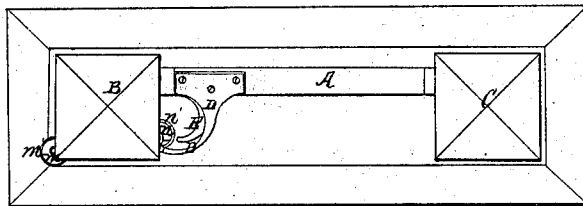


Fig. 2

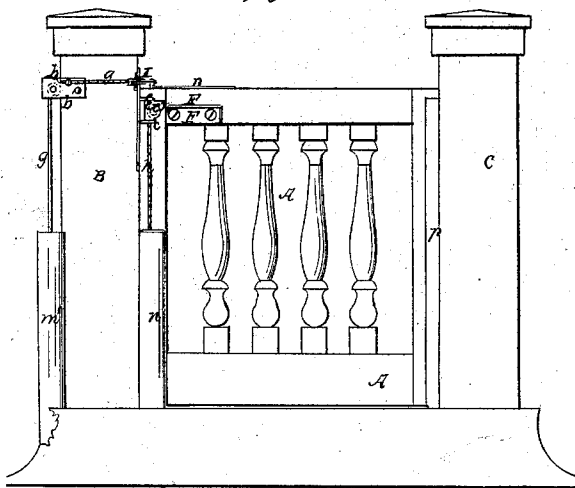
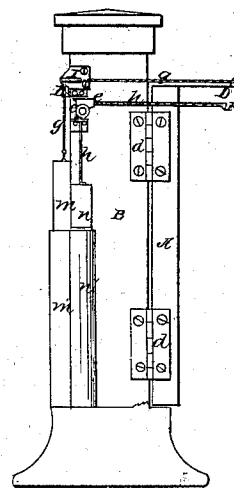


Fig. 3



Witnesses:
H. H. Burridge
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Inventors:
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UNITED STATES PATENT OFFICE.

F. RAYMOND AND A. MILLER, OF CLEVELAND, OHIO.

IMPROVEMENT IN FENCE-GATES.

Specification forming part of Letters Patent No. 55,906, dated June 26, 1866.

To all whom it may concern:

Be it known that we, F. RAYMOND and A. MILLER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Fence-Gates; and we do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan view of the gate. Fig. 2 is a front elevation. Fig. 3 is an end view of the gate open.

Like letters of reference refer to like parts in the several views.

A is the gate, between the posts B and C, hung to the post B at *d d*, as shown in Fig. 3. On the top of the gate, near the end where it is hinged to the post, is secured a curved arm, D, as represented in Fig. 1. To the end of this arm is attached a cord, *g*, that passes round a sheave, I, arranged in the corner of the post, supported in a suitable bearing. From this sheave the cord extends along the side of the post, passes over a vertical sheave, *b*, that has its bearing in a case, *b'*, attached to the post. To the end of the cord is suspended a weight, *m*, as seen in Fig. 3, that is inclosed in a case, *m'*, on the side or corner of the post in which it descends as the gate closes. When the gate is opened more or less, if not entirely, in passing through, as it is released, the weight *m'* will cause it to swing immediately shut, when it will come against a stop, *p*, on the post C,

where it will be securely held by the weight, requiring thereby no latch. When the gate is entirely opened, as shown in Fig. 3, the weight counterbalances the gate and retains it open until it is started to swing shut.

The gate can be operated in the same manner by means of a curved arm, F, secured to the upper part of the gate below the arm D. To the end of the arm F a cord, *h*, is attached, that passes over a sheave, *e*, supported in an adjustable case, *e'*, that is pivoted or has its bearings in lugs *c*, secured to the post. The case *e'* can be turned around more or less, thereby adjusting the sheave to any position, according to the direction of the cord, as the gate is opened more or less. The cord *h* suspends a weight, *n*, in a case, *n'*, that is raised more or less in proportion as the gate is opened, and descends when it is released, drawing the gate shut in the same manner, as before described. When the gate is opened entirely the weight *n* counterbalances it, and will retain it in that position.

What we claim as our improvement, and desire to secure by Letters Patent, is—

The cord *h*, adjustable case *e'*, and sheave *e*, in combination with the gate A and arm F, when arranged and operating substantially as and for the purpose set forth.

FITCH RAYMOND.
AUGUST MILLER.

Witnesses:

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A. W. McCLELLAND.