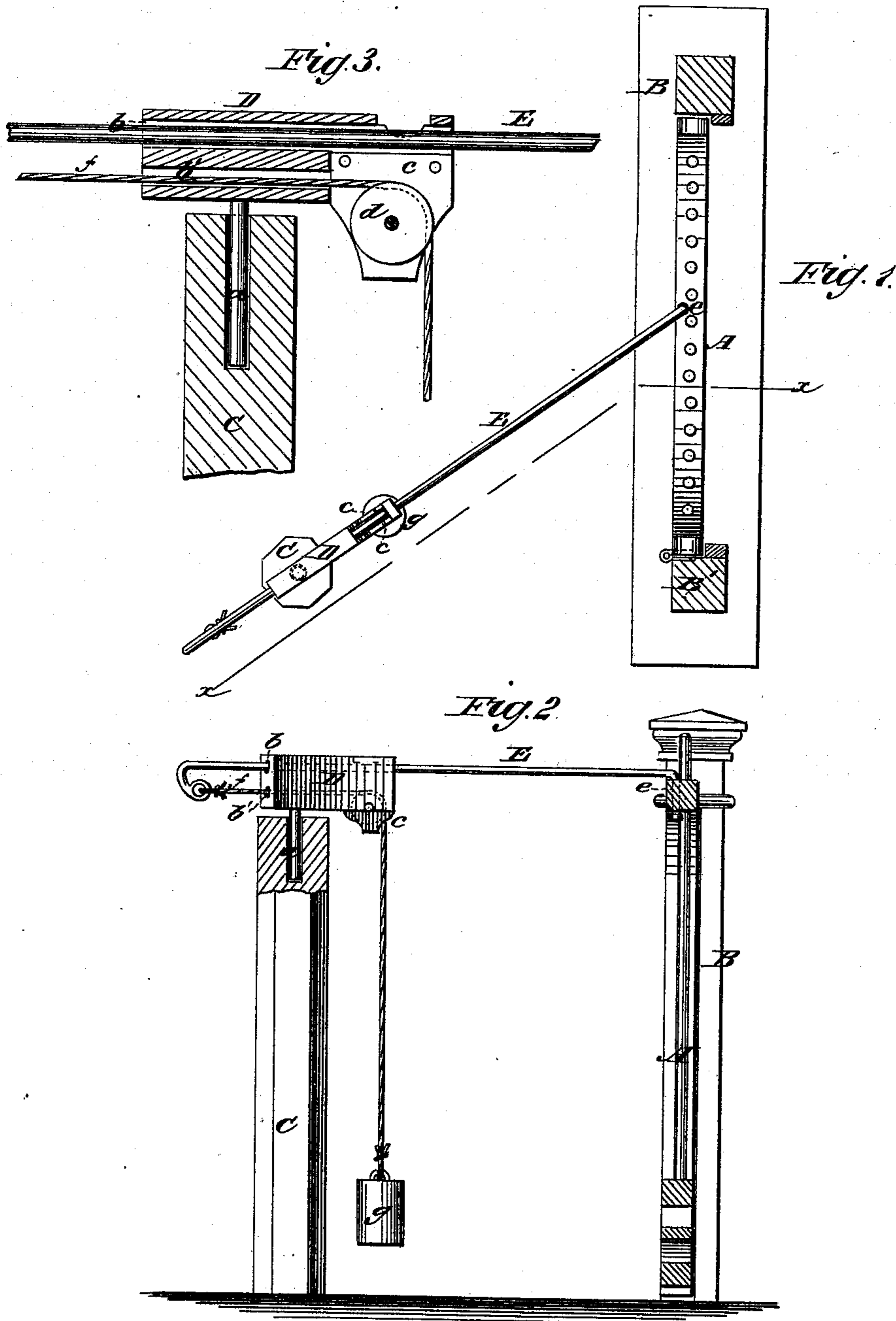


I. A. POOL.
Gate-Shutter.

No. 214,949.

Patented April 29, 1879.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ISAAC A. POOL, OF ESCANABA, MICHIGAN.

IMPROVEMENT IN GATE-SHUTTERS.

Specification forming part of Letters Patent No. **214,949**, dated April 29, 1879; application filed November 25, 1878.

To all whom it may concern:

Be it known that I, ISAAC A. POOL, of Escanaba, in the county of Delta and State of Michigan, have invented a new and Improved Gate-Shutter, of which the following is a specification.

The object of this invention is to provide a device for shutting gates that acts easily and surely; and it consists of a rod pivoted at one end to the gate, and running through a sheath or gig. To its end opposite that fixed to the gate is attached a rope, that runs through the same sheath or gig and over a pulley pivoted therein with its end fixed to a weight, whereby, when the gate is opened and released, the weight actuates the rod, and causes it to close the gate quickly and with perfect certainty.

In the accompanying drawings, Figure 1 is a top view or plan of a gate with my improvement attached. Fig. 2 is a section on line *x*, Fig. 1; and Fig. 3 is a vertical longitudinal section of the sheath or gig and its connection with its supporting-post.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents an ordinary gate, supported between the posts B B'. A short distance from the post B', and to one side, so as not to intercept or obstruct the passage-way through the gate, is planted a post, C. In the top of this post is pivoted a sheath or gig, D, by a stud, *a*, projecting from its under side. This sheath has two longitudinal and parallel holes, *b b'*, through it, and on one end are two arms, *c c*, in which is pivoted a pulley, *d*.

E is a metal rod, passed through hole *b* in sheath D. One end of this rod is pivoted to the gate at *e*, about midway of its length, while to the other end is fixed a rope, *f*, which is passed through hole *b'*, thence over pulley *d*, and to its hanging end is attached a weight, *g*.

The operation of my device is as follows: When the gate is opened, the rod is thrust back, and, by means of the rope, lifts up the weight *g*, and the sheath or gig D turns on its pivot, to accommodate the changing angle of the rod E to post C, caused by moving it back. When the gate is released, the weight, gravitating, acts upon the end of rod E, draws or pushes it through the sheath in the direction of the gate, and the latter, being acted upon, is forced back or shut quickly and securely.

As the weight accelerates its speed in falling, it will be readily understood that the greatest speed and force is exerted as the gate nears its closed position, and thus there is no liability of its being left partially open or unlatched.

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

As an improvement in gate-shutters, the gig or sheath D, constructed and operating as hereinbefore described, in combination with rod E, rope *f*, and weight *g*, operating from post C upon gate A, for the uses and purposes substantially as described.

ISAAC A. POOL.

Witnesses:

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