J. T. PIGGOTT & A. W. HOYT.

GATE.

No. 192,185. Patented June 19, 1877.

Fig. 2.

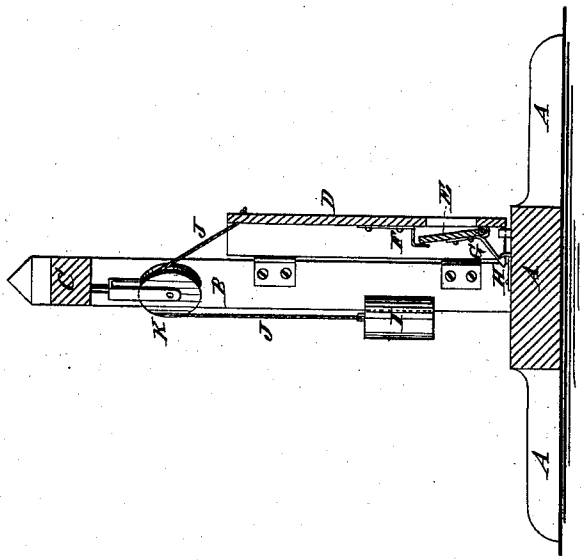
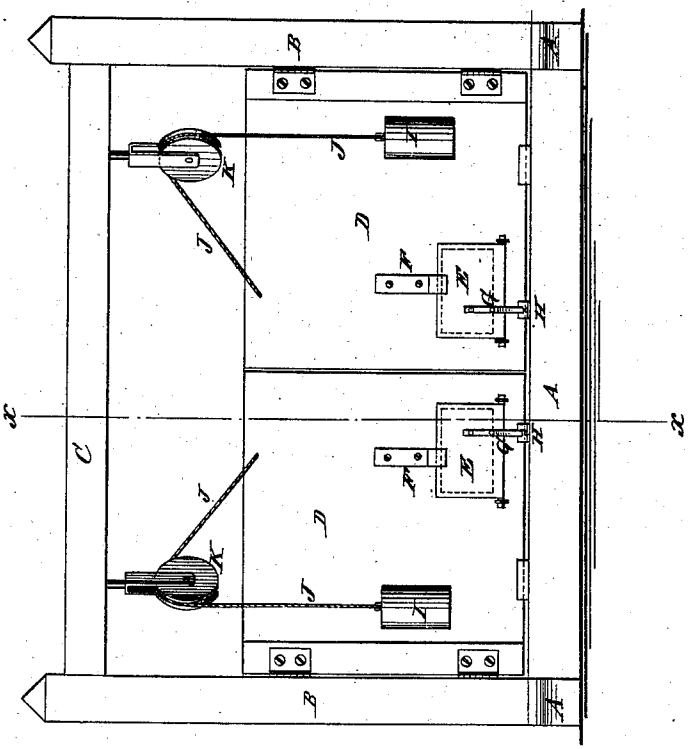


Fig. 1.



WITNESSES:

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JOSEPH T. PIGGOTT AND ALBERTUS W. HOYT, OF NEWBERN, ILLINOIS.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **192,185**, dated June 19, 1877; application filed April 30, 1877.

To all whom it may concern:

Be it known that we, JOSEPH T. PIGGOTT and ALBERTUS W. HOYT, of Newbern, in the county of Jersey and State of Illinois, have invented a new and useful Improvement in Flood-Gate, of which the following is a specification:

Figure 1 is a front view of our improved flood-gate. Fig. 2 is a vertical cross-section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved flood-gate for streams and other places where the fences are liable to be swept away by a rise of water, and which shall be simple in construction, strong, and durable, and reliable in use.

The invention consists in the combination of the sill, posts, and cross-beam, the gates, the hinged trap-doors, the stop-hooks, the latch-hooks, the catches, and the weights, the ropes or chains, and the swiveled pulleys with each other, as hereinafter fully described.

A represents the mud-sill, to the end parts of which are attached the lower ends of the posts B, which are connected, at a considerable distance above the tops of the gates by a cross-beam, C. D are the gates, the outer edges of which are hinged to the posts B in such a way that the said gates may open down-stream. In the gates D, near their lower inner corners, are formed holes, which are closed by small trap-doors E, hinged at their lower edges to the said gates D in such a way that the said trap-doors may tend to fall up-stream. The falling movement of the trap-doors E is limited by stop-hooks F attached to the gates D above the said holes. To the lower part of the doors E are attached hooks G, which, when the gates swing shut, catch upon catches H attached to the base-sill.

With this construction, when the water rises, so as to have sufficient force to close the trap-doors E, the hooks G will be raised, and the gates D allowed to swing open. As the water subsides the gates D will be drawn shut by the weights I attached to the ends of the ropes or chains J. The other ends of the ropes or chains J are attached to the gates D near their inner upper corners.

The ropes or chains J pass over pulleys K swiveled to the beam C, so that the pulleys K can turn freely as the direction of the ropes or chains J varies as the gates swing open and shut.

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

The combination of the sill, posts, and cross-beam A B C, the hinged gates D, the trap-doors E, the stop-hooks F, the latch-hooks G, the catches H, and the weights, ropes, or chains, and swiveled pulleys I J K, with each other, substantially as herein shown and described.

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Witnesses:
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