(No Model.)

W. W. EDWARDS.

FLOOD GATES.

No. 247,030. Patented Sept. 13, 1881.

Fig. 1.

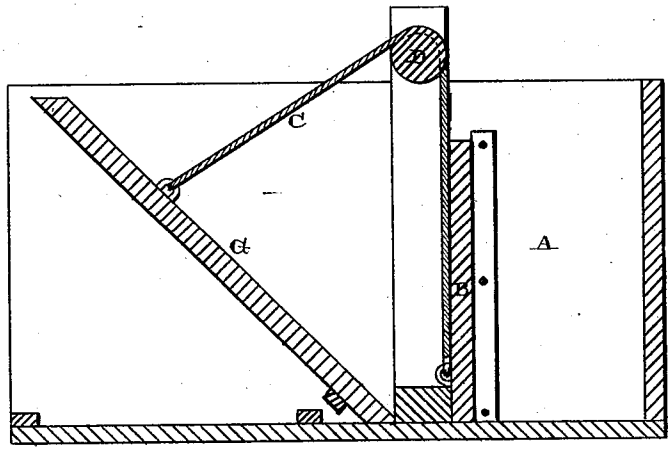
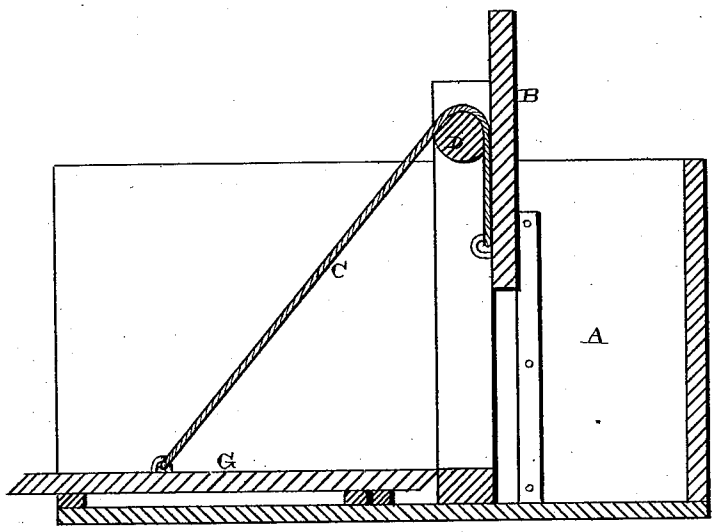


Fig. 2.



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F. A. Lehmann,
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UNITED STATES PATENT OFFICE.

WILEY W. EDWARDS, OF PLATTSBURG, MISSISSIPPI.

FLOOD-GATE.

SPECIFICATION forming part of Letters Patent No. 247,030, dated September 13, 1881.

Application filed July 6, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILEY W. EDWARDS, of Plattsburg, in the county of Winston and State of Mississippi, have invented certain new and useful Improvements in Flood-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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in flood-gates; and it consists in the combination of a gate which moves vertically in suitable guides, a guide, a rope or chain, and a fall-door which is placed in the water-channel, outside of the gate, whereby, when the water rises over the top of the gate it falls down upon the door and, in forcing the door downward raises the gate upward, so that the water can run underneath the gate, as will be more fully described hereinafter.

The object of my invention is to provide the gate with an automatic attachment, whereby, when the water rises too high the gate will open and let the water pass through without any damage to the gate, instead of having it swept away, as might be the case were no attachment used.

Figures 1 and 2 are vertical sections of my invention, showing the gate in different positions.

A represents suitable side walls, which are built upon each side of the water-passage through which the water flows from a lake or pond. In between these side walls is placed a vertically-movable gate, B, which is held in place by suitable guides, and to the lower end of which is attached a rope or chain, C, which passes up over a guide, pulley, or roller, D. The outer end of this rope or chain is attached to the top of the fall-door G, which is placed at an incline in the water-passage, as shown. This door should be much lighter than the gate, so that when the gate is left free to move it will sink into position and draw the fall-door up again. When the water rises in the pond or lake high enough to flow over the top of the gate it fills that space between the gate and the fall-door until the pressure of the water upon the fall-door becomes great enough to force the door downward, and as the door sinks downward the gate is raised upward. The water can then escape freely from under the gate until it has fallen below that point at which it will run over the top of the gate, when the door will rise and the gate fall back into position.

By means of an attachment of this kind there is no danger of the flood-gate ever being injured by floods, for as soon as the water rises to a certain point the gate will automatically open and allow it to pass freely out.

Having thus described my invention, I claim—

The combination of a vertically-moving gate, a guide, a rope or chain, and a fall-door, substantially as shown and described.

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

WILEY WAMAN EDWARDS.

Witnesses:

ROBERT EMMET HOLMES,

SILAS BAGGETT.