

D. BOWLES.
Flood Gate.

No. 202,221.

Patented April 9, 1878.

Fig. 1.

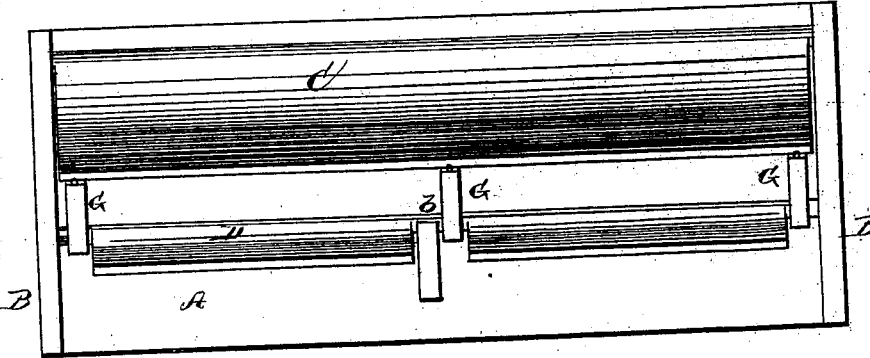


Fig. 2.

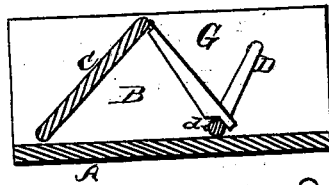


Fig. 4.

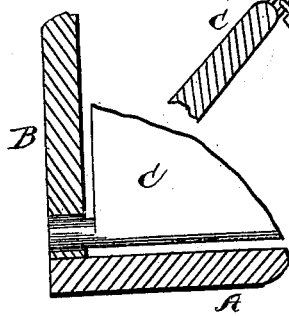


Fig. 3.

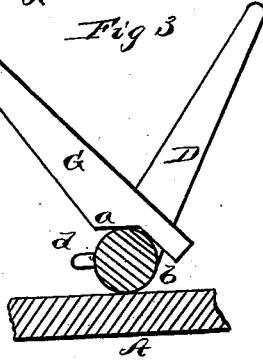
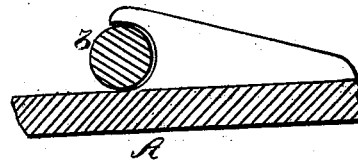


Fig. 5.



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UNITED STATES PATENT OFFICE.

DAVID BOWLES, OF MISER'S STATION, TENNESSEE.

IMPROVEMENT IN FLOOD-GATES.

Specification forming part of Letters Patent No. 202,221, dated April 9, 1878; application filed December 7, 1877.

To all whom it may concern:

Be it known that I, DAVID BOWLES, of Miser's Station, in the county of Blount and State of Tennessee, have invented certain new and useful Improvements in Flood-Gates; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a falling flood-gate, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to whom my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a plan view; Fig. 2, a central cross-section; and Figs. 3, 4, and 5, detail views of my flood-gate.

A represents a platform of any suitable dimensions, which is to be placed in the dam, or where the water is to be raised, as far below the surface of the water in the pond as it is to be drawn off. The platform A has an abutment, B, at each end.

C represents the gate placed across the platform, near the upper end, and extending from abutment to abutment, it having journal-bearings in said abutments at the lower edge.

D represents a lap-board placed below the flood-gate, and having its journal-bearings in the abutments B B.

To the free edge of the flood-gate C are hinged or loosely connected three arms or braces G, more or less, each of which is

formed with a shoulder or offset, *a*, in its outer end. Corresponding with these braces the lap-board D is cut out to form round bearings *b*, upon which said shouldered braces can rest, these bearings being on a line with the axis of the lap-board. On the bearings *b* are formed or attached lugs or projections *d*, as shown. The flood-gate is raised up until the braces G can rest with their shoulders *a* upon the bearings *b*, and the lap-board D is set at an angle down stream.

It will readily be seen that, the gate being placed in proper position, inclined down stream, and supported by the braces, as described, when the water passes over the flood-gate and strikes the lap-board with sufficient force, the lap-board will be turned down onto the platform, and the lugs or projections *d* will throw off the braces G from the bearings *b*, and the flood-gate will at once fall, letting the water pass, protecting the dam and level, and carrying away the sediment from the pond.

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

The combination of a falling flood-gate, C, with hinged braces G, the lap-board D, with bearings *b*, and the lugs *d* on said bearings, all arranged between abutments B on a platform, A, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

DAVID BOWLES.

Witnesses:

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JAMES W. EVERETT.