(No Model.)

R. M. DILL.

COMBINED WASTEWAY AND DRAIN FOR PONDS.

No. 337,819. Patented Mar. 16, 1886.

Fig. 1.

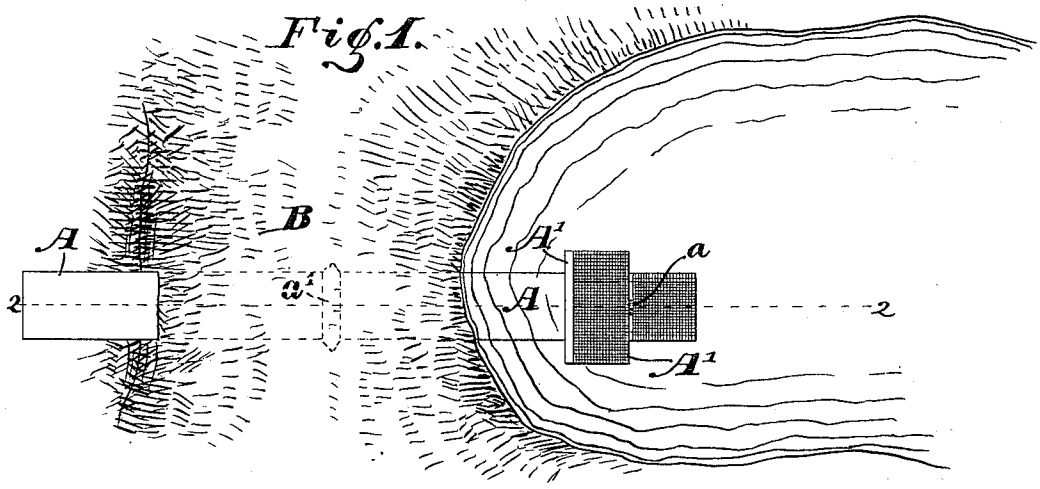


Fig. 2.

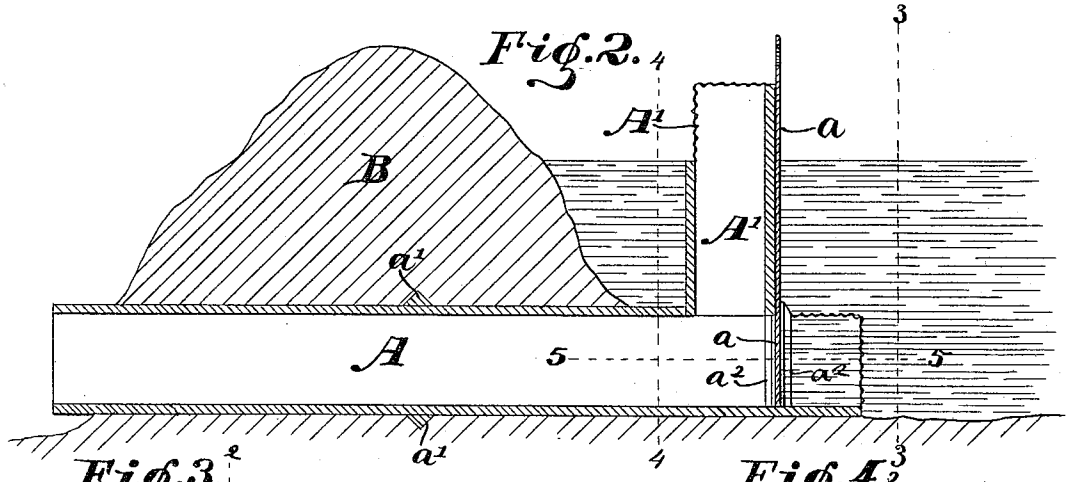


Fig. 3.

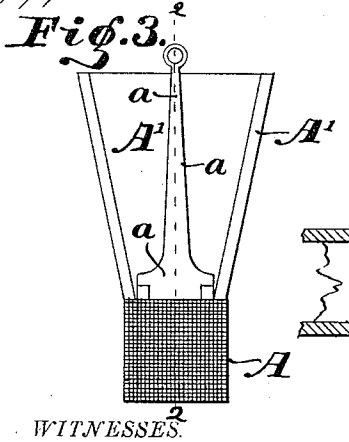


Fig. 4.

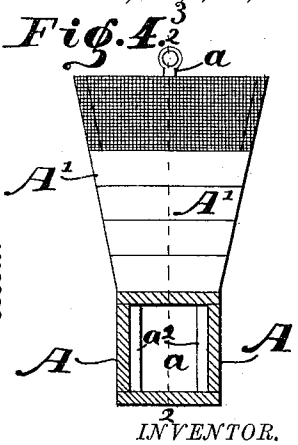
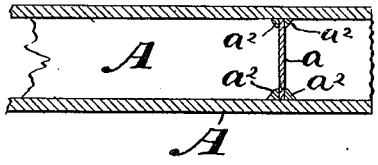


Fig. 5.



WITNESSES.

Chas. N. Leonard.

E. W. Bradford.

INVENTOR.

Richard M. Dill,

PER

C. Bradford.

ATTORNEY.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

RICHARD M. DILL, OF MORGANTOWN, INDIANA.

COMBINED WASTEWAY AND DRAIN FOR PONDS.

SPECIFICATION forming part of Letters Patent No. 337,819, dated March 16, 1886.

Application filed December 8, 1885. Serial No. 185,043. (No model.)

To all whom it may concern:

Be it known that I, RICHARD M. DILL, of the town of Morgantown, county of Morgan, and State of Indiana, have invented certain new and useful Improvements in a Combined Wasteway and Drain for Ponds, of which the following is a specification.

The object of my said invention is to provide a combined wasteway and drain for ponds, whereby when an excess of water comes into the pond it will run off through the same drain or flume that the pond can itself upon occasion be drained through, as will hereinafter be more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a top or plan view of the edge of a pond where my said invention is employed; Fig. 2, a longitudinal vertical section through the bank of a pond and my improved combined wasteway and drain on the dotted line 2 2; Fig. 3, an end elevation of the same as seen from the dotted line 3 3 in Fig. 2; Fig. 4, a sectional view, looking to the right from the dotted line 4 4 in Fig. 2; and Fig. 5, a horizontal sectional view on the dotted line 5 5.

In said drawings, the portions marked A represent the drain or flume, and B the bank of the pond. The main drain or flume A has an upwardly-projecting portion, A′, which is preferably of about the same height as the bank of the pond. Upon the side of said upwardly-projecting portion nearest the receiving end of the flume is a gate, *a*, by which the flow of water is usually cut off. One side of the upper end of the portion A′ is not planked entirely to the top, thus leaving a space into which the water will run when it rises above the desired height. The upper end is also left open, so as to receive a greater volume of water if it should rise to the full height of said upwardly-projecting portion. These open spaces, as well as the receiving end of the main flume A, are covered with a wire-netting or cross-bars to prevent the fish from being drawn off with the water, my said invention being principally designed for use in connection with fish-ponds. About midway of the bank the flume is surrounded by a ridge or projecting portion, *a′*, which interrupts the flow of any water which might otherwise follow said flume down along its outer surface, and thus prevents leakage from this source.

The gate *a* is mounted in suitable slides, a^2, which renders it practically water-tight.

The bank B is the usual bank of the pond, and is formed in any desired manner.

The flume may be constructed of wood, pipe, masonry, or any other desired material, and of the size rendered necessary by the desired amount of drainage.

The device being in place and the pond being filled with water, should a freshet occur, or should the pond rise from any other reason, the water will run off through the overflow, as before described.

When it is desired to drain the pond completely for the removal of fish, or for any other cause, the gate *a* is raised, and the drain or flume being at the bottom of the pond it can be drained as dry as desired. In either case the wire-netting or cross-bars provide effectually against the escape of the fish.

The device herein described is much superior to the usual overflow provided at the top of the bank, and the connection of the overflow and lower drain renders the device economical to build.

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

1. A combined wasteway and drain for ponds, consisting of a drain or flume, A, extending out under the bank, a vertical pipe or flume, A′, connected to said drain A near its inner end and extending up therefrom, and a gate, *a*, arranged between the connection of said pipe A′ with said drain A and the inlet to said drain, whereby when it is desired the pond may be easily drained, or when it is filled to the desired height the excess will flow into the drain through the vertical pipe, thereby adapting said drain for both uses, substantially as set forth.

2. A drain for ponds, the horizontal flume or pipe of which has a surrounding ridge or

projecting portion, a', to intercept the flow of water down the outside of said pipe or flume, substantially as shown and described.

3. The combination of the horizontal pipe or flume A, having the ridge or projecting portion a' and gate a, and the upwardly-projecting portion A', having the upper portion of one side open, and the wire-netting or cross-bars covering said open portion and also the open receiving end of said pipe or flume A, substantially as set forth.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 1st day of December, A. D. 1885.

RICHARD M. DILL. [L. S.]

In presence of—

C. BRADFORD,

E. W. BRADFORD.