

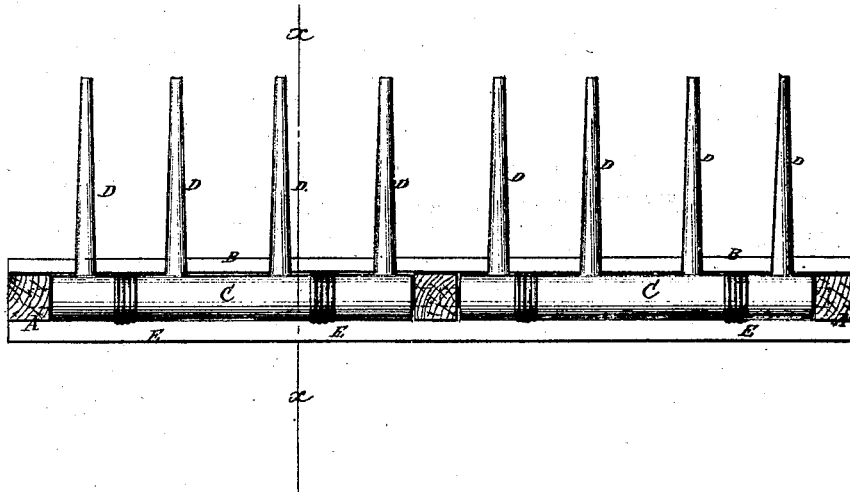
*Rowland & Tilton.*

*Flood Gate.*

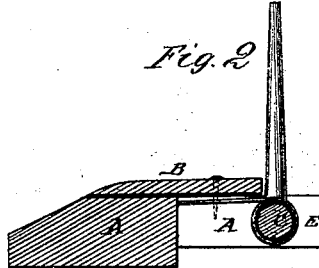
*No. 109,252.*

*Patented Nov. 15. 1870.*

*Fig. 1*



*Fig. 2*



**Witnesses:**

*A. W. Hingrich*  
*L. S. Mabee*

**Inventor:**

*J. Rowland*  
*J. Tilton*  
PER *Munn & Co.*  
**Attorneys.**

# United States Patent Office.

SAMUEL ROWLAND AND THOMAS C. TIPTON, OF WILLIAMSPORT, OHIO,  
ASSIGNORS TO THEMSELVES AND G. W. WIGGINS, OF SAME PLACE.

Letters Patent, No. 109,252, dated November 15, 1870.

## IMPROVEMENT IN FLOOD-GATES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that we, SAMUEL ROWLAND and THOMAS C. TIPTON, of Williamsport, in the county of Pickaway and State of Ohio, have invented a new and useful Improvement in Flood-Gate or Fence; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a front view of our improved flood-gate or fence.

Figure 2 is a vertical detail section of the same.

Similar letters of reference indicate corresponding parts.

This invention is an improvement on the flood-gate patented June 17, 1862, No. 35,591, to William Donnan.

In his invention, the roller, in which the stakes are set, is exposed, in common with them, to the force of the flood itself, or to injury from contact with logs, stone, or whatever else may be carried along by the same.

The arrangement of spring-retracting devices is also such that a box must be provided for their protection, and their frequent repair and constant care are requisite to keep his gate in working condition.

To obviate these and other difficulties connected with the practical operation of said invention, we have conceived the plan of providing an inclined frame or shed for protecting the gate on the side toward the current.

We also arrange the retracting springs beneath this, and allow the stakes to rest against it when in the vertical position. Thus, no sticks, stones, or other substances can effect a lodgment against or beneath

the roller, and the gate may be left for months without necessity of inspection occurring.

A is the under sill or foundation-frame of the gate or fence, which is designed to be placed upon or imbedded in the bottom and banks of the stream, and which may be secured in place, when necessary, by stakes or other means.

The upper side of the mud-sill or frame A is covered with sheathing-boards B.

C is a roller, the ends of which are pivoted to the sill or frame A, or to supports attached to said sill or frame.

The roller C may be made in one piece, or in sections, as may be desired, and to it are attached the ends of the bars or stakes D.

E are springs, attached to the roller C, and to the sill or frame A in such a way as to hold the stakes D in a vertical position, except when forced down by drift-wood or other substance being carried down by the stream.

The springs E may be made of gum elastic, or of some suitable metal.

When made of metal, the said metal should be galvanized, or otherwise prevented from rusting.

The main parts of the device being entirely under water will be very durable.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

The arrangement of the roller C, provided with the stakes D and the springs E, with the inclined frame or shed A B, as and for the purpose specified.

SAMUEL ROWLAND.  
THOMAS C. TIPTON.

Witnesses:

J. D. ANDREW,  
JAMES CRABILL.