

No. 643,044.

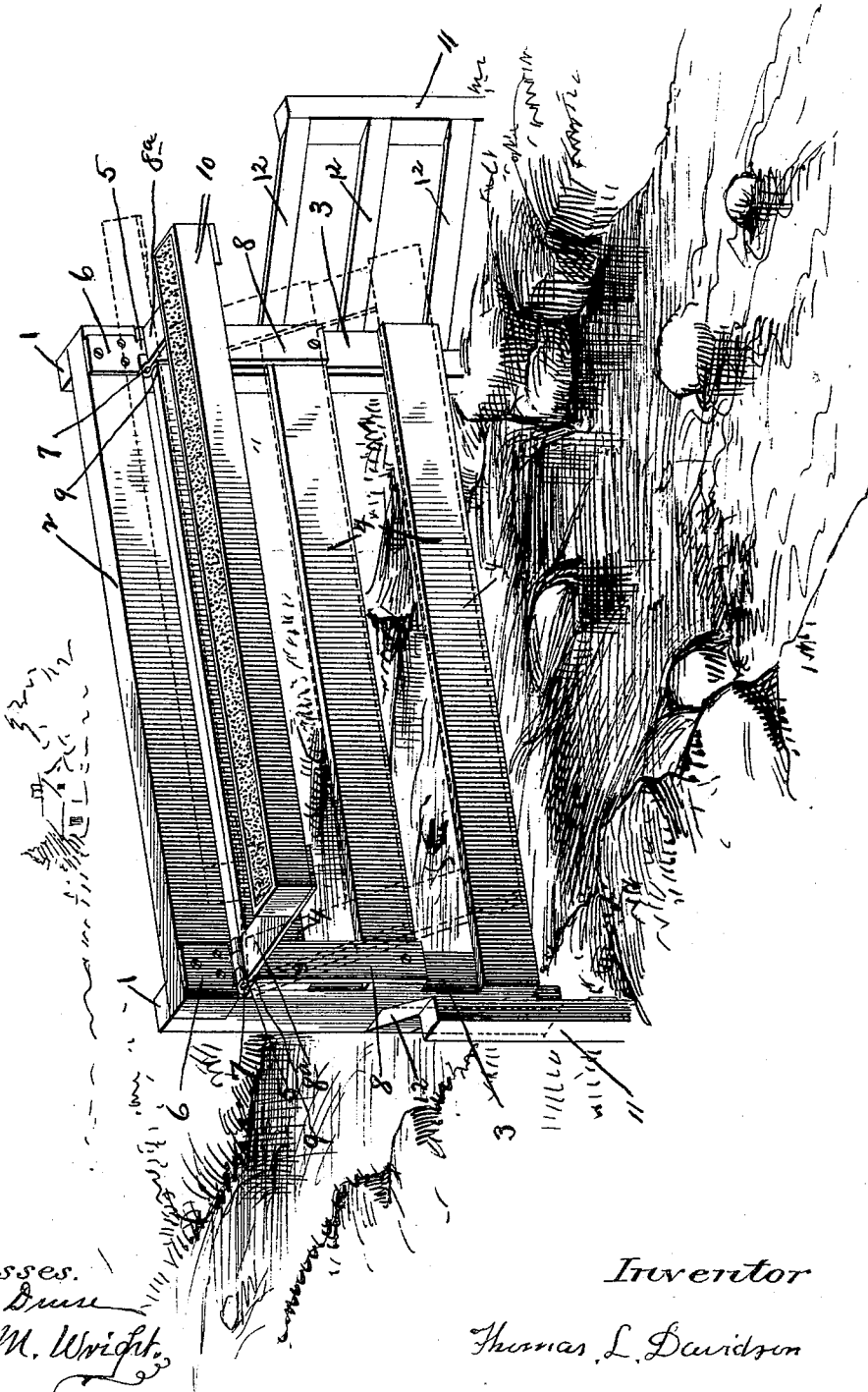
Patented Feb. 6, 1900.

T. L. DAVIDSON.

FLOOD GATE.

(Application filed Dec. 19, 1898.)

(No Model.)



UNITED STATES PATENT OFFICE.

THOMAS L. DAVIDSON, OF BARD, IOWA.

FLOOD-GATE.

SPECIFICATION forming part of Letters Patent No. 643,044, dated February 6, 1900.

Application filed December 19, 1898. Serial No. 699,784. (No model.)

To all whom it may concern:

Be it known that I, THOMAS L. DAVIDSON, a citizen of the United States, residing at Bard, Louisa county, Iowa, have invented a new and useful Flood-Gate and Three Piece or Arm Hinge Device and Automatic Closing-Weight, of which the following is a specification.

My invention relates to improvements in flood-gates; and it consists in certain novel features of construction and combination of parts, as will be hereinafter more fully described and pointed out.

The object of my invention is to provide an automatic-closing flood-gate of simple, cheap, and durable construction that may be made by the ordinary mechanics who are usually employed to construct fences on a farm.

My flood-gate is designed to be placed in position across water-courses at points where they intersect fences for the purpose of preventing the ingress or egress of stock through these breaks in the fences. It is so constructed that it will be opened by the action of rising water and opened just far enough to allow the water to pass through, and thus obviate the danger of the fence being injured, and will automatically close when the water subsides, thereby preventing the passage of stock through it. Wing-fences are also added to make it impossible for stock to pass through by the side of the gate when it is raised by high water or drown themselves in attempting to do so.

In the drawing which accompanies this specification and forms a part of it like numerals of reference denote like parts. The figure shown therein is a detailed perspective of my flood-gate in position across a water-course.

As shown in the drawing, 1 1 are upright posts of suitable dimensions set in the ground. The tops of these posts should be placed several feet above high-water mark. A cross-bar 2 is substantially attached to the tops of posts 1 1. The gate proper is formed of side strips 3 3, which are to be made of sufficient length to extend to the surface of low water, and fastened thereto a number of cross-boards 4, as many as may be required to make a good gate. I may make my gate solid like a door to prevent drift from catching therein. The

gate is fastened to the cross-bar 2 by means of hinges 5 5, of a peculiar and novel construction. The hinge 5 consists of the combination of a one-armed strap 6, which is attached to cross-bar 2 by screws or other means, pivoted on pintle 7 to a two-armed strap 8 8^a. The arms 8 8^a are at an approximate right angle to each other. Arm 8 is bent in such a manner as to form a shoulder 9, and this arm is attached to the gate in a suitable manner. Arms 8^a form brackets which support a weight 10, and these arms rest on the shoulders 9 9, which act as supports for them and their load. Weight 10 is provided to hold the gate closed or to automatically close it after it has been forced open. This weight may be of any construction. An approved method of making the same is to attach a long narrow box to brackets 8^a and fill the same with sand or earth. When constructed in this manner the force may be easily regulated by adding or subtracting material from the box. Wing-fences are composed of upright posts 11 and cross-boards 12, fastened to posts 11 11 and 1 1. Posts 11 may be of any height, with as many cross-boards as may be necessary to fulfil the purpose for which these fences are provided, as heretofore fully set forth.

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

1. In a flood-gate, the combination of two upright posts surmounted by a cross-bar, a gate hinged to said cross-bar, and hinges formed by the combination of a one-armed strap, attached to said cross-bar, and a two-armed strap pivoted thereto on a pintle, said arms forming an approximate right angle with each other, one of said arms being attached to said gate and the other forming a bracket to support closing-weight, a closing-weight supported on the brackets formed by the hinge-pieces, substantially as described.

2. In a flood-gate, the combination of two upright posts surmounted by a cross-bar, a gate hinged to said cross-bar, and hinges formed by the combination of a one-armed strap, attached to said cross-bar, and a two-armed strap pivoted thereto on a pintle, said arms forming an approximate right angle with each other, one of said arms provided

with a shoulder formed by bending it at an angle, this arm being attached to said gate and the other arm forming a bracket to support a closing-weight, a closing-weight supported on the brackets formed by said hinge-
5 pieces, substantially as described.

3. In a flood-gate, the combination of two upright posts surmounted by a cross-bar, a gate hinged to said cross-bar, and hinges
10 formed by the combination of a one-armed

strap and a two-armed strap, one arm of said two-armed strap serving as a bracket, a closing-weight supported on said brackets, two wing-fences built at an angle to the gate at the side thereof, substantially as described.

THOMAS L. DAVIDSON.

Witnesses:

HARRY C. DRUSE,

CHARLES M. WRIGHT.