

No. 616,248.

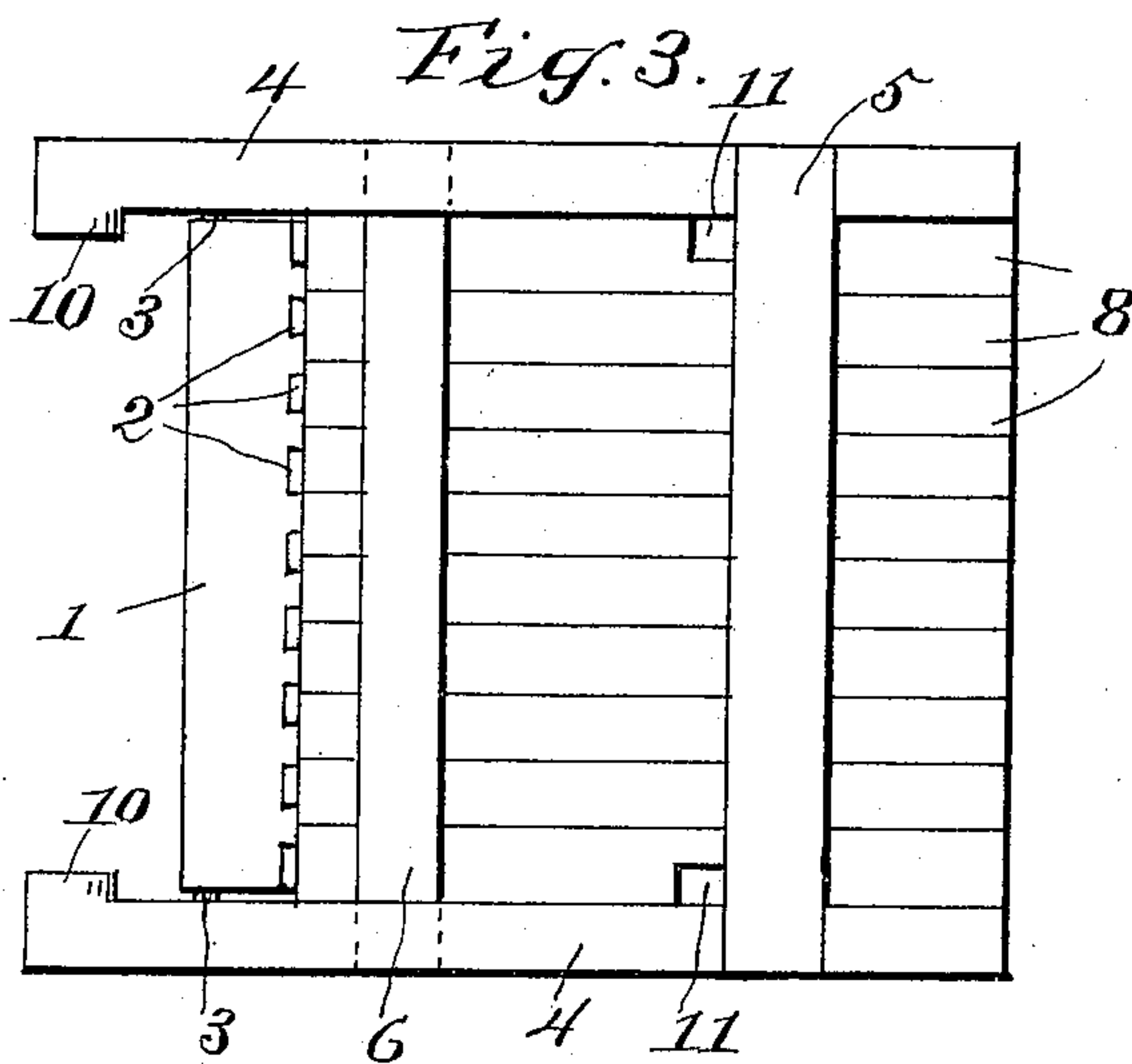
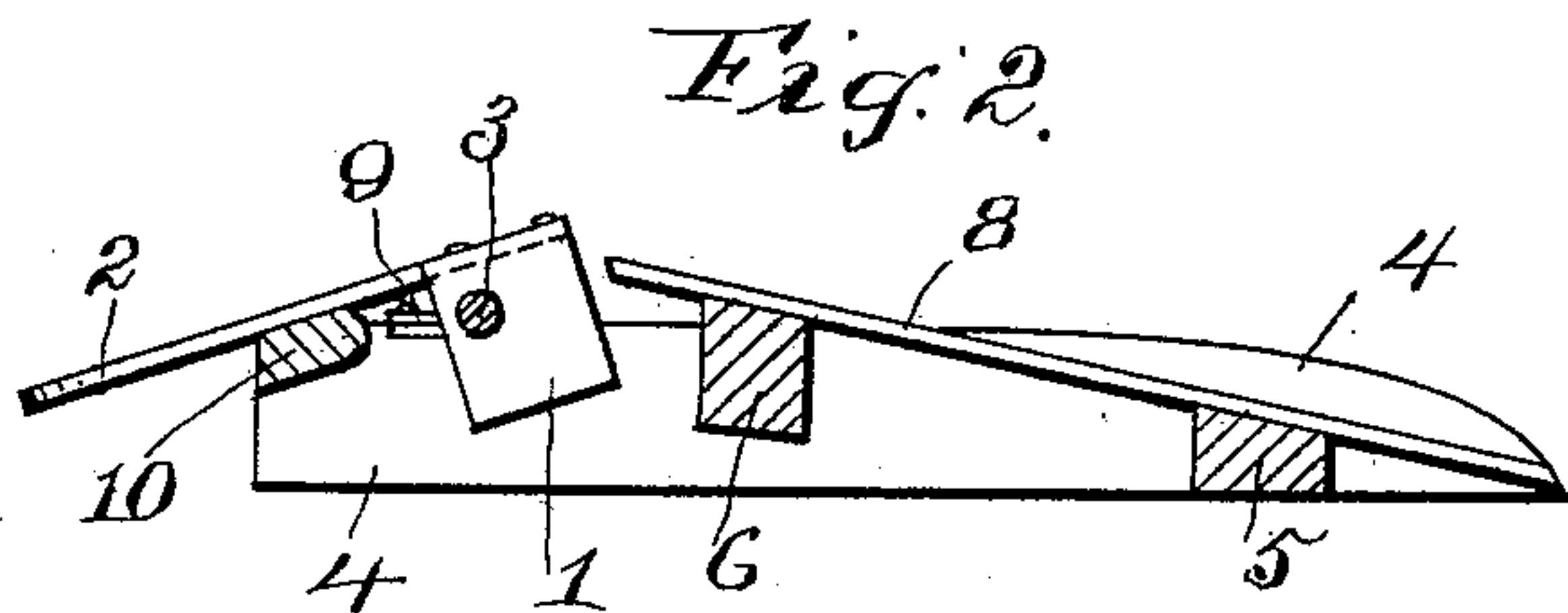
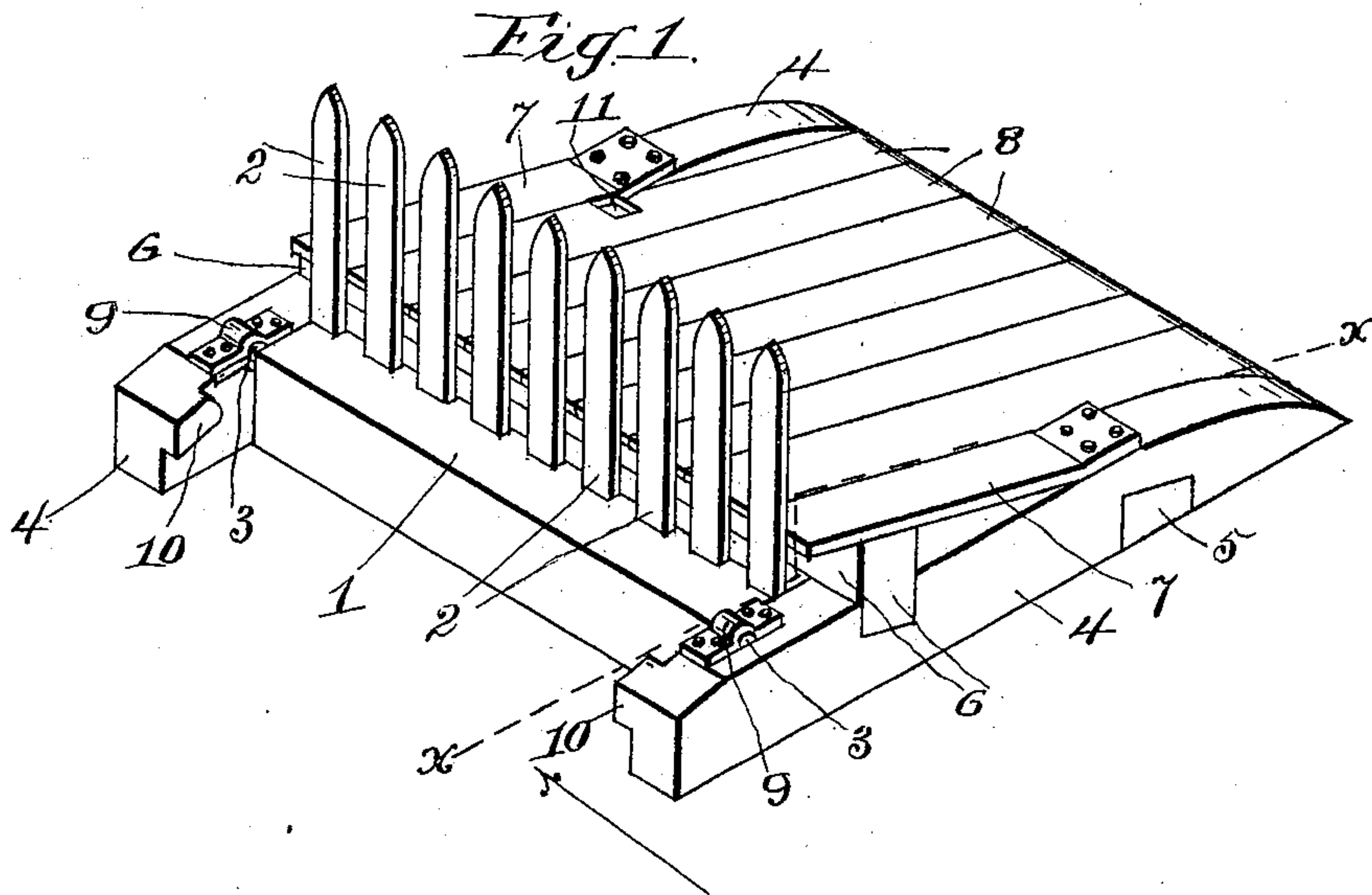
Patented Dec. 20, 1898.

D. McCAFFERTY.

FLOOD GATE.

(Application filed Aug. 9, 1898.)

(No Model.)



Witnesses.

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# UNITED STATES PATENT OFFICE.

DAVID McCAFFERTY, OF MONTGOMERY CITY, MISSOURI.

## FLOOD-GATE.

SPECIFICATION forming part of Letters Patent No. 616,248, dated December 20, 1898.

Application filed August 9, 1898. Serial No. 688,196. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID McCAFFERTY, a citizen of the United States, residing at Montgomery City, in the county of Montgomery and State of Missouri, have invented certain new and useful Improvements in Flood-Gates, of which the following is a specification.

This invention relates to water-gates, and particularly to an automatic flood-gate.

The invention consists in the novel and peculiar construction, combination, and arrangement of parts, as will be hereinafter fully described, and set up in the appended claim.

In the accompanying drawings, forming part of this application, Figure 1 is a perspective view of the invention. Fig. 2 is a section on the line  $x x$ , Fig. 1, with the gate depressed. Fig. 3 is a bottom plan view with the gate in normal position.

The same numeral references denote the same parts throughout the several figures of the drawings.

The gate consists of a beam 1, having a series of arms 2 secured thereto, with an interval or space between the arms, and having a pivot or journal 3 projecting from each end of the beam at the intersection of the top and front edges of the beam, so as to allow the beam an eccentric movement on account of the weight of the beam in the rear of said pivots being greater than the weight of the said arms.

The gate frame or support consists of side pieces 4, which rest on the bottom of a river or other stream or in a flume, and which are joined together by a bottom timber 5 and a top brace 6, set into the top edge of the pieces 4 and projecting therefrom at an angle. The brace 6 and the pieces are further connected by braces 7, and the space between the sides 4 is closed by a series of boards 8, secured to the top brace 6 and to the bottom timber 5 in an inclined or slanting position, the inclination or slant of the boards being fixed by simply putting the brace 6 in place, which gives the boards the same slant as the top of the said brace without working or beveling

the latter, so that all uncertainty as to the inclination of the boards is avoided and their inclination definitely fixed before they are placed in position by setting the brace 6.

Journal-bearings 9 are provided forward of the brace 6 on the sides 4 for the pivots or journals 3, and in front of said bearing on the ends of the said side pieces is a lug or projection 10 to stop the downward movement of the gate in an inclined position by the arms 2 coming in contact with said lugs, the backward movement of the gate being stopped by the arms engaging the projecting ends of the boards 8. Openings 11 are provided, through which pins or stakes are driven to hold the frame to the bottom of a river or other stream. It is obvious that an overflow of water will depress the gate, and when the water is at normal condition the weight of the gate-beam 1 will return the gate to vertical or normal position.

In spanning wide streams the device may be made in sections suitably joined together.

I am aware that it is common to employ a gravity-gate in the construction of flood-gates, as well as to provide a water-suction to assist in holding the gate-frame in position, and I therefore lay no claim to the same.

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

In a flood-gate construction, the combination, with the frame comprising side base-pieces, a top cross-brace having its ends set into said pieces at an angle to the latter to fix the inclination of suitable covering-boards, and pivot-bearings in the said pieces, of the gate pivoted in said bearings to swing to a vertical position, and to an inclined position below its pivot-point, and the stop-lugs on the said pieces to fix the inclined position of the gate, substantially as and for the purpose set forth.

In witness whereof I hereunto set my hand in the presence of two witnesses.

DAVID McCAFFERTY.

Witnesses:

D. W. MAJOR,  
DANIEL HAWK.