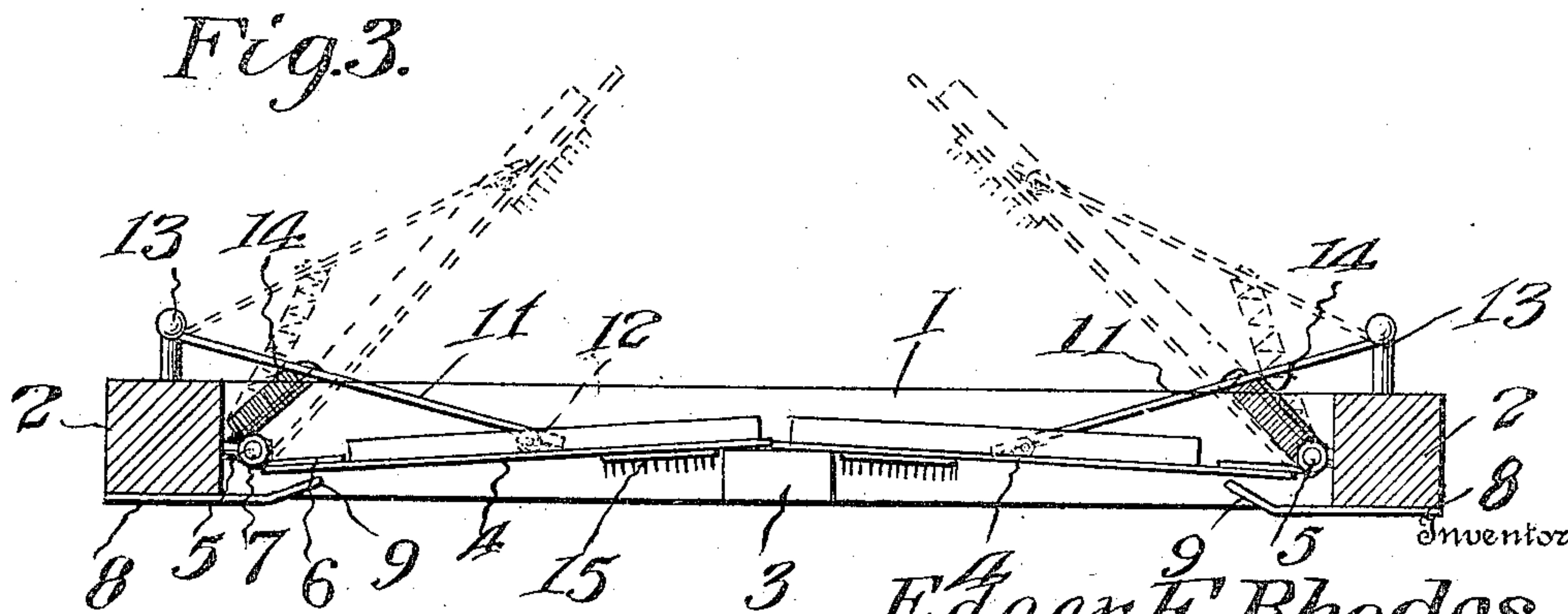
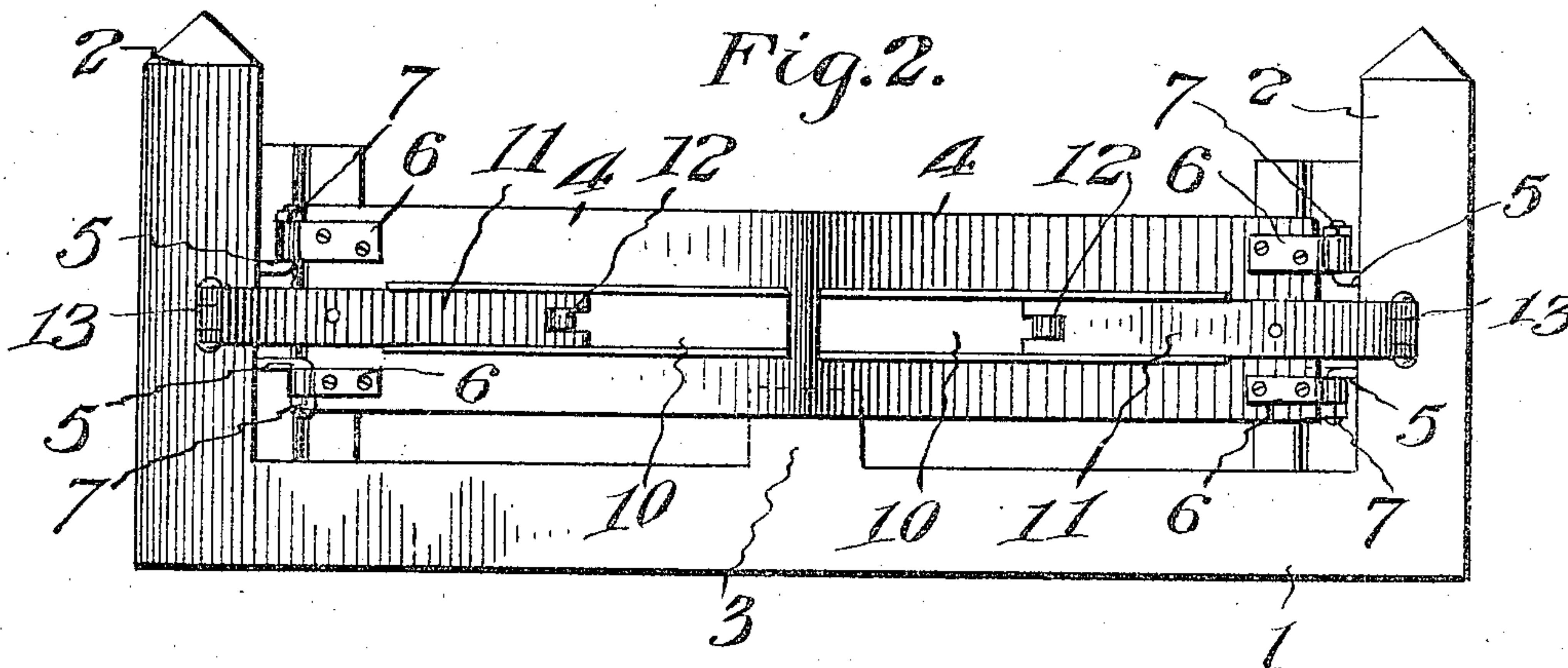
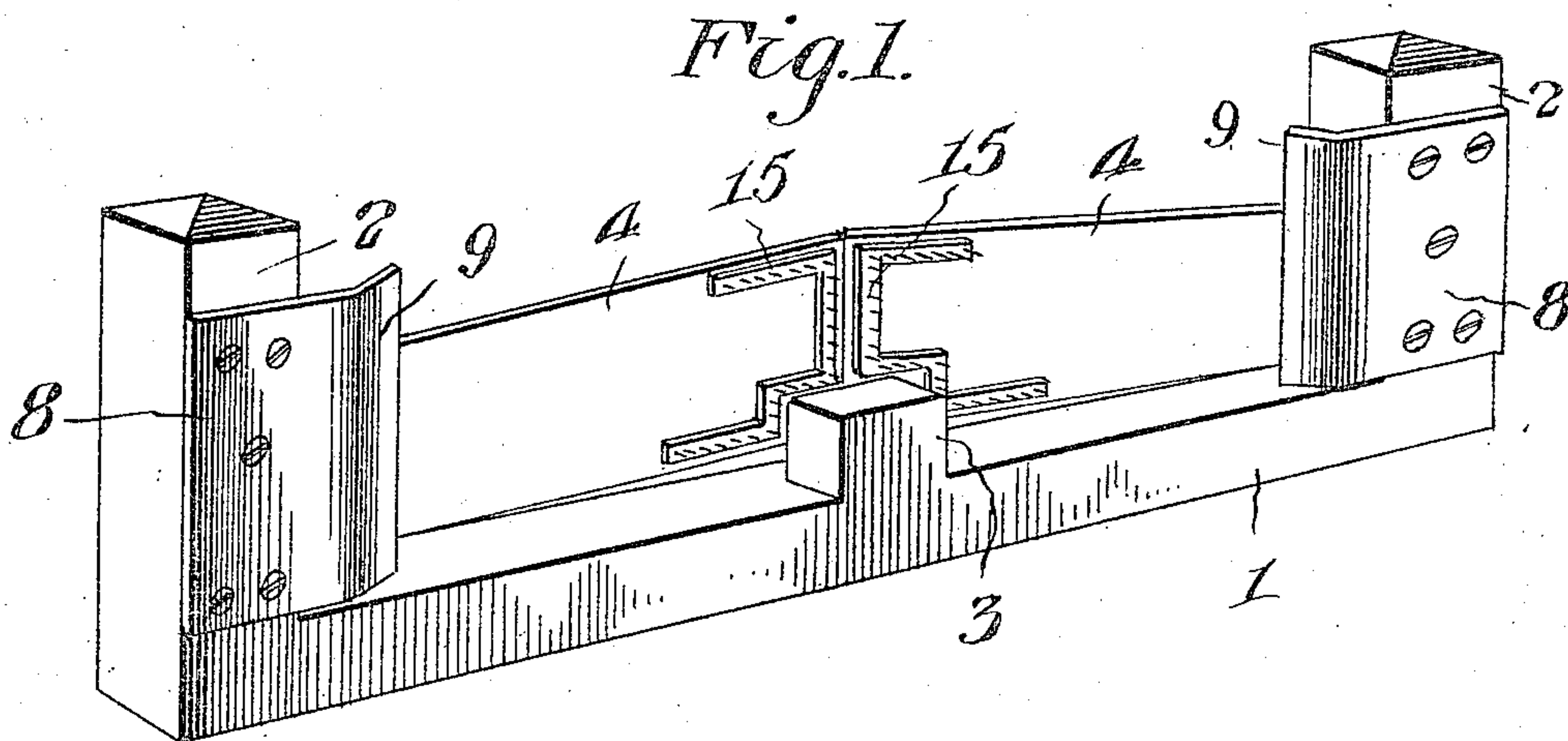


E. F. RHODES.
FLOOD GATE.
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944,210.

Patented Dec. 21, 1909.



Witnesses:—

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UNITED STATES PATENT OFFICE.

EDGAR F. RHODES, OF SWEET SPRINGS, MISSOURI.

FLOOD-GATE.

944,210.

Specification of Letters Patent.

Patented Dec. 21, 1909.

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To all whom it may concern:

Be it known that I, EDGAR F. RHODES, a citizen of the United States of America, residing at Sweet Springs, in the county of Saline and State of Missouri, have invented new and useful Improvements in Flood-Gates, of which the following is a specification.

This invention relates to flood gates, and one of the principal objects of the invention is to provide a reliable and efficient spring-closed gate adapted to be placed across a stream so that the force of the current will open the gates and permit them to close automatically after the current has been reduced in force.

Another object of the invention is to provide a spring-controlled flood gate in which the base is preferably formed of concrete and in which the gates proper will be provided with means for preventing cattle from opening the gate.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which,—

Figure 1 is a perspective view of a flood gate made in accordance with this invention. Fig. 2 is a rear side elevation of the gate. Fig. 3 is a horizontal sectional view illustrating the gate in plan and showing the gate partially opened in dotted lines.

Referring to the drawing, the numeral 1 designates the base or sill of the gate; 2 are the end posts, and 3 the central stop. The sill, posts and stop are preferably formed of concrete or a mixture of Portland cement and gravel. However, the sill, posts and stop may be formed of wood if so desired.

The gate members 4 are preferably formed of sheet metal and are connected to L-shaped hinges 5 secured to the posts. Metal hinge members 6 are secured to the gate members 4, and the vertical portions of the hinges 5 are extended through bearings formed in the plates 6, nuts 7 being applied to the ends of the hinge members 5. Sheet metal fenders 8 are secured to the gate posts in front of the hinges, said fenders having backwardly inclined bent edges 9 to direct the stream and drift wood through the center of the gate. In rear of the gate guideways 10 are secured, and spring actuated arms 11 are

movable in the guideways, said arms having rollers 12 journaled in their front ends, and said arms being hinged at 13 to the posts. A spiral spring 14 is connected to each post, and the opposite ends of said springs are connected each to one of the arms 11. Secured to the front of the gate members 4 are plates provided with outwardly extending prongs 15 to prevent animals from opening the gate.

The operation of the gate may be briefly described as follows: The gate is placed across the stream with the arms 11 and the springs 14 down stream. When the force of the current is sufficient coming against the gate members 4 to open the gates against the tension of the springs 14, the stream will pass through, and when the flood abates, the gates will close automatically by the springs and arms.

My invention is of simple construction, can be manufactured at low cost, is strong, durable and efficient for its purpose and can be quickly installed in place in a running stream.

I claim:—

1. A flood gate comprising a sill, posts projecting therefrom, a centrally disposed stop on said sill, gate members hinged to the post, fenders connected to said posts to protect the hinges, said fenders being bent inwardly at their ends, arms hinged to the rear sides of said posts and provided with rollers at their ends, guideways for said rollers secured to the gate members, and springs connected to said arms and to said posts for holding the rollers in the guideways to keep the gate closed against the tension of said spring.

2. A flood gate comprising a sill, a hinged gate, fenders for said gate, said fenders being bent inward to protect the hinges, a spring-actuated arm having a roller journaled therein for bearing against the gate, a guideway for said roller, and a stop for said gate.

In testimony whereof I affix my signature in presence of two witnesses.

EDGAR F. RHODES.

Witnesses:

JESSE WHEELER,
ROBT. RHODES.