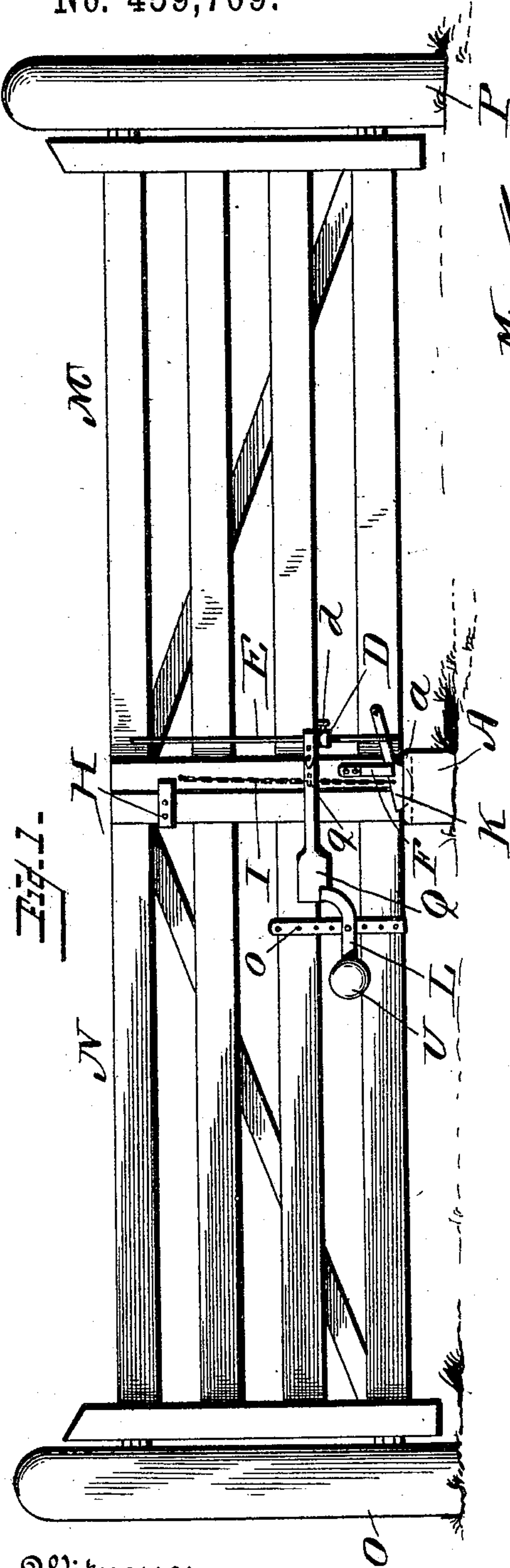


(No Model.)

R. J. PARRISH.
FLOOD GATE.

No. 459,709.

Patented Sept. 15, 1891.



Witnesses

Wm. L. Leidy.
Van Buren Hillyard.

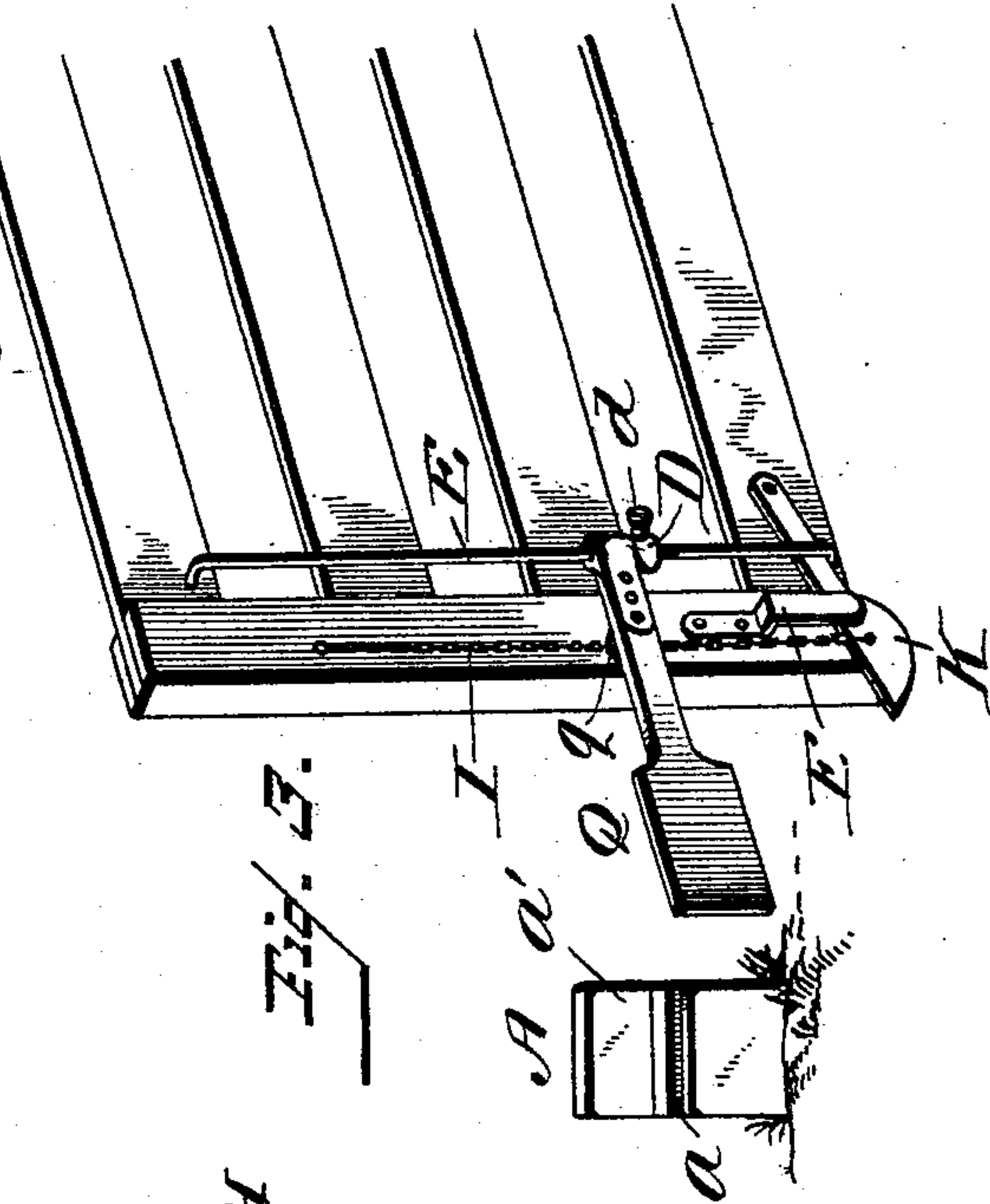


Fig. 2.

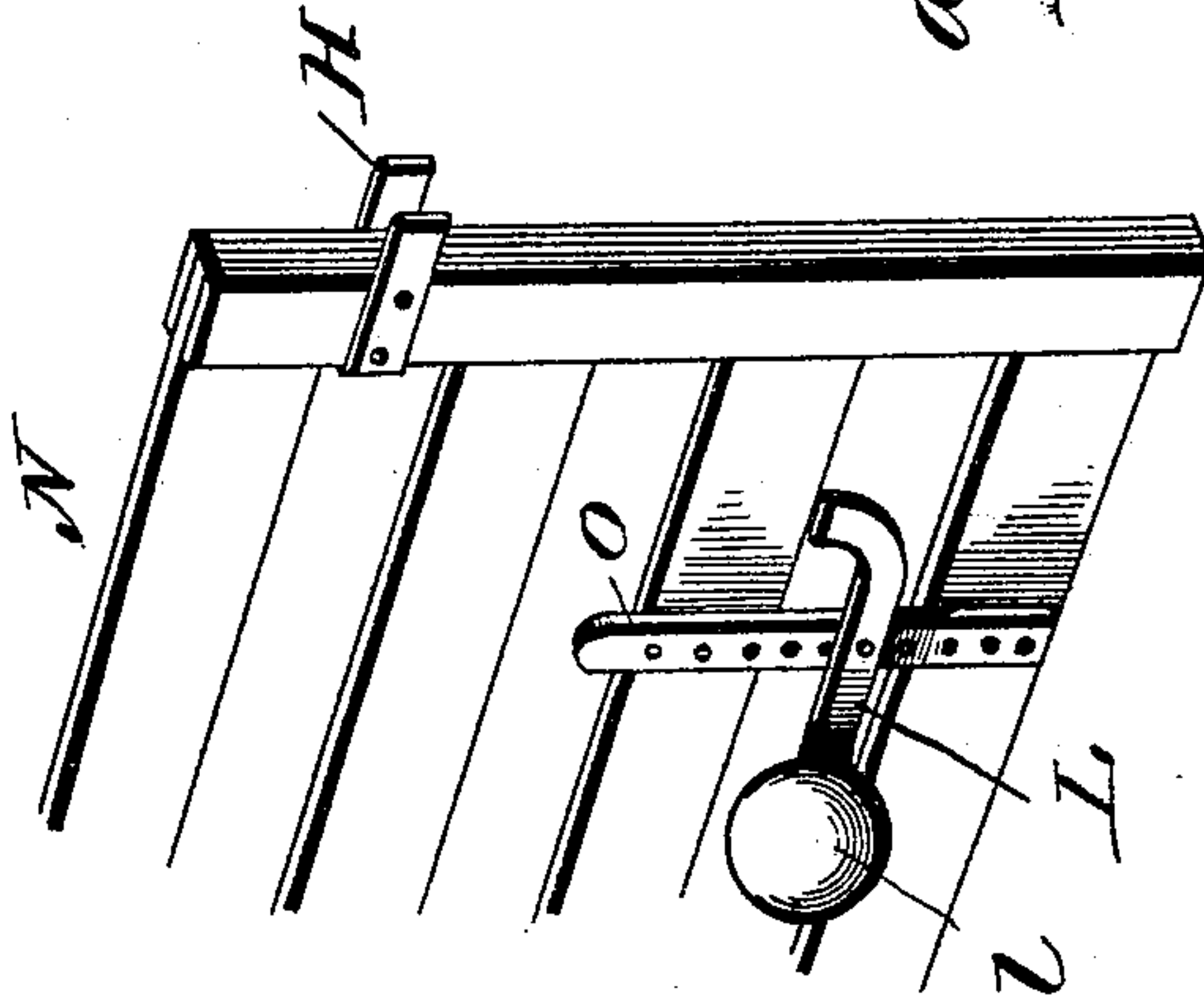


Fig. 3.

Inventor

Robert J. Parrish.

By his Attorneys

R. & A. Lacey

UNITED STATES PATENT OFFICE.

ROBERT JAMES PARRISH, OF COLUMBUS, OHIO, ASSIGNOR OF ONE-HALF TO
DANIEL LEWIS SMITH, OF SAME PLACE.

FLOOD-GATE.

SPECIFICATION forming part of Letters Patent No. 459,709, dated September 15, 1891.

Application filed April 28, 1891. Serial No. 390,752. (No model.)

To all whom it may concern:

Be it known that I, ROBERT JAMES PARRISH, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Flood-Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to flood-gates, and aims to provide a gate which will be opened by a predetermined rise in the stream in time to avoid damage by drifts, and which will be opened by the rise and the current of the water solely.

The improvement consists of the novel features which will be hereinafter more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a front view of a flood-gate embodying my invention. Fig. 2 is a perspective view of the free end of the gate having the wind-guard and the clasp. Fig. 3 is a perspective view of the outer end of the gate which is provided with the releasing and the fastening devices.

The gates M and N may be of any length, the same being determined by the width of the water-course, and are hinged to the posts O and P. The free ends of the gates are held together near their upper ends by the clasps H and at their lower ends by the latch K, which is pivoted at one end to the gate M, the other end being constructed to overlap the gate N and enter a groove *a* in the upper end of the stub-post A, which is planted in the bed of the water-course directly opposite the meeting ends of the gates. The vertical projection *a'* at the rear side of the stub-post limits the movements of the gates when closing, the latter being held at their free ends between the projection *a'* and the latch K. The chain or cable I, attached to the latch near its free end, extends up some distance and is secured at its upper end to the gate M. The keeper F, secured at its upper end to the gate M, overlaps the latch at its lower end and braces the same laterally and prevents it swinging out. The vertical guide-rod E has its ends bent at right angles and

threaded and thrust through the gate, and held in place by nuts or other equivalent devices. The vane Q is mounted on the rod E to turn and move freely thereon, and is adjustable on the said rod, being held in the located position by the collar D, mounted on the rod, and held thereon by the binding-screw *d*. The chain or cable I is in engagement with the vane, preferably by passing through the eye *q* thereon, so that when the vane swings out it will draw on the said chain or cable and disengage the latch K from the stub-post A. The wind-guard L is pivoted between its ends to the gate or strip O thereon and its horizontal member is provided with float *l*. This guard L is vertically adjustable on the strip O to adapt it to the position of the vane Q.

The operation of the invention is as follows: The gates, being closed, are held between the projections *a'* and the latch K. The vane Q is adjusted to the proper level, and when the water rises to this level the current will cause the vane to turn on the rod E and pull on the chain or cable I and release the latch. The gates, being free, will swing open under the pressure of the water. To prevent the wind blowing against the vane from turning the same, the guard L is engaged with the said vane. The rising water floats the free end of the guard and releases the vane, which is actuated by the water to disengage the latch K, as hereinbefore stated.

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

1. The combination, with the water-gates, the latch, and the vane, of the wind-guard to hold the vane in the wind operated by the rising water, substantially as set forth.

2. The combination of the water-gates, the stub-posts A, having groove *a* and projection *a'*, the latch K, chain or cable I, guide-rod E, adjustable collar D, vane Q, and the adjustable wind-guard L, substantially as set forth.

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

ROBERT JAMES PARRISH.

Witnesses:

LEWIS SMITH,
JAMES J. BEARD.