

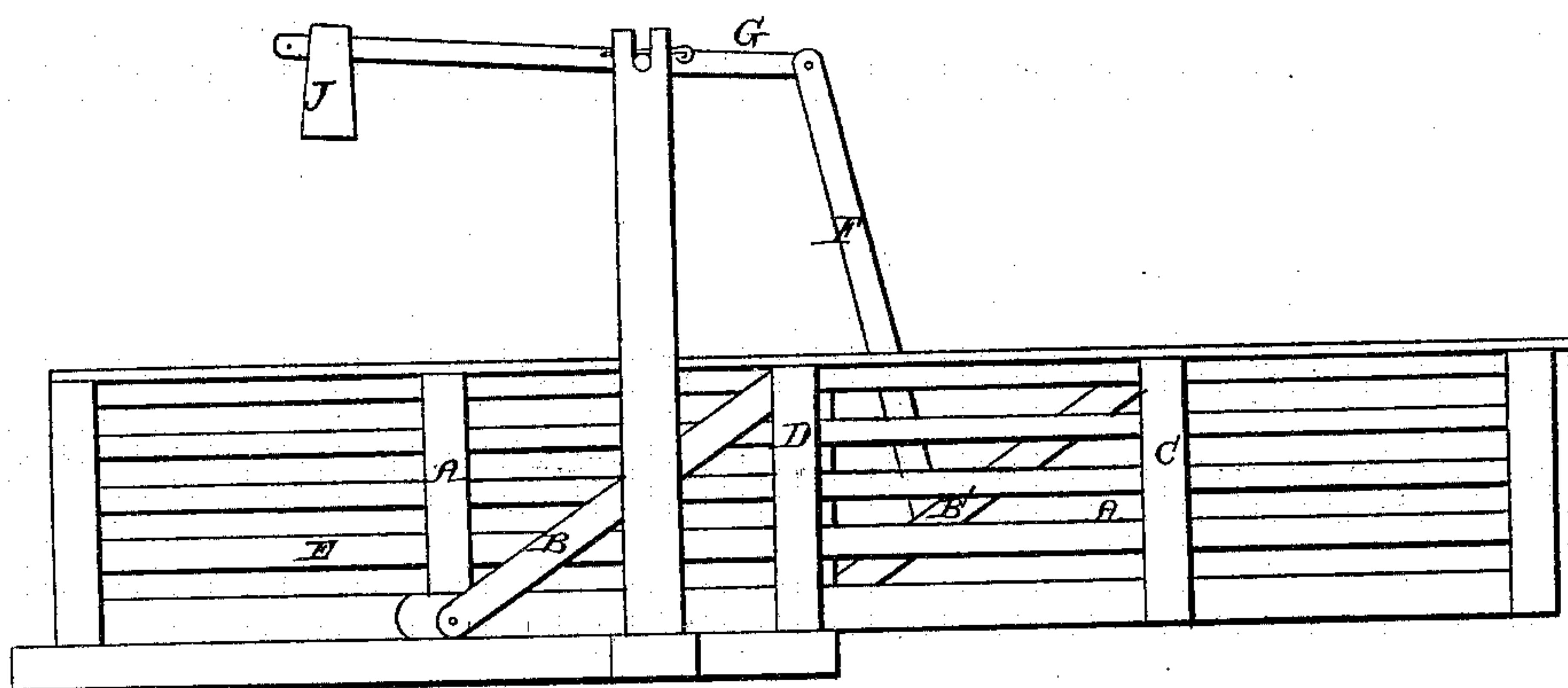
T. W. JOHNSON.

Gate.

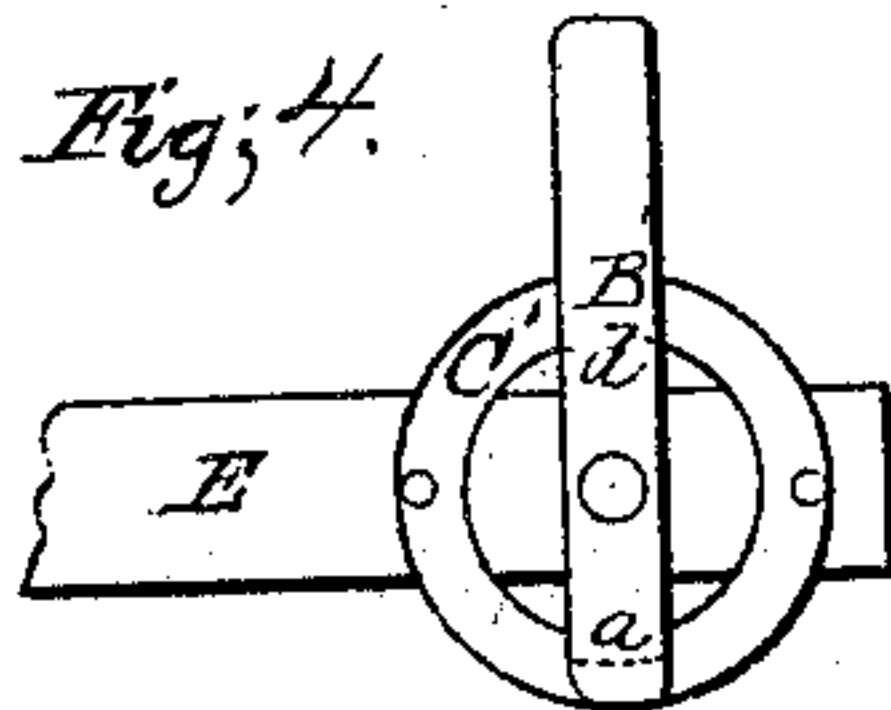
No. 78,670.

Patented June 9, 1868.

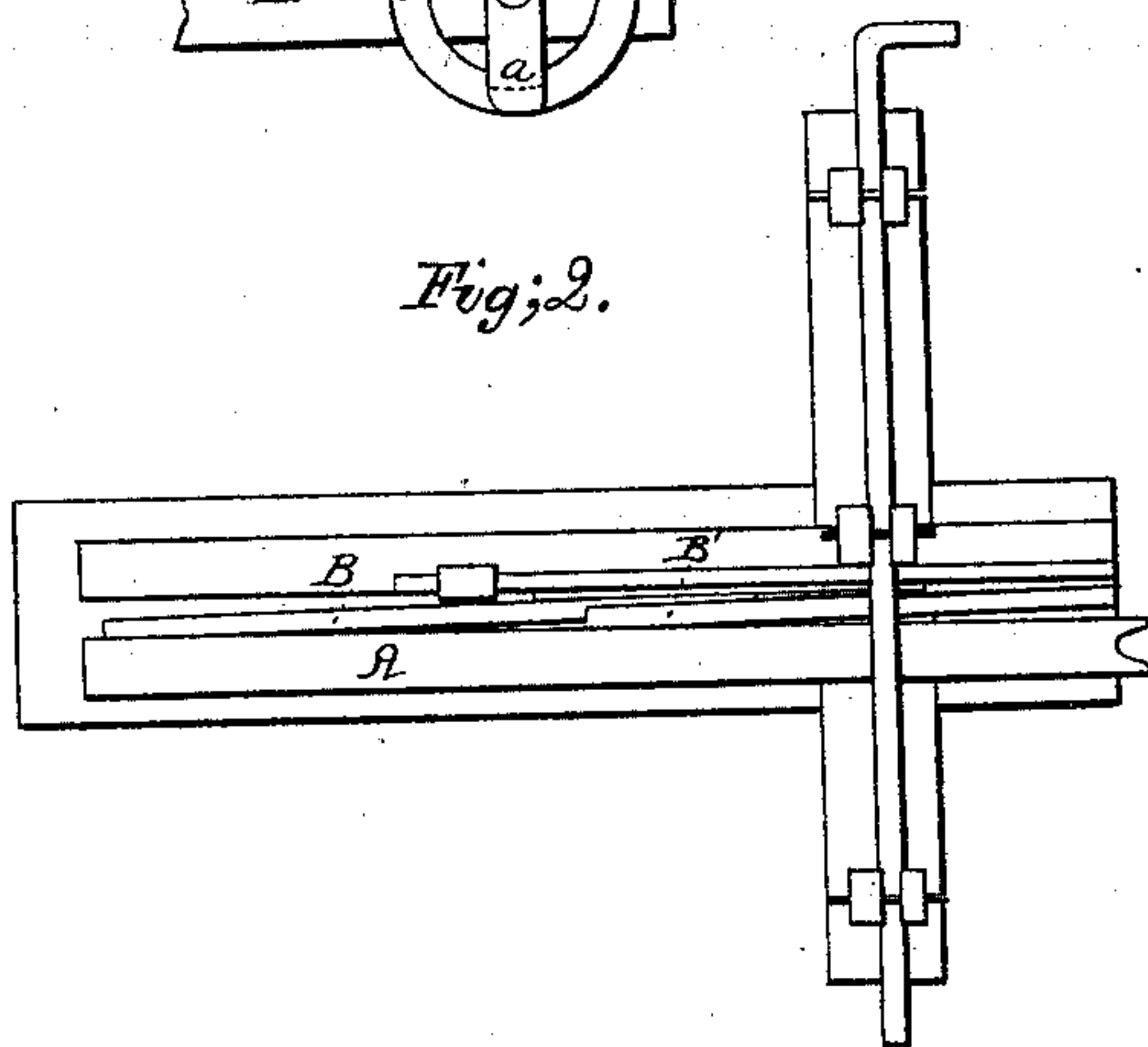
*Fig; 1.*



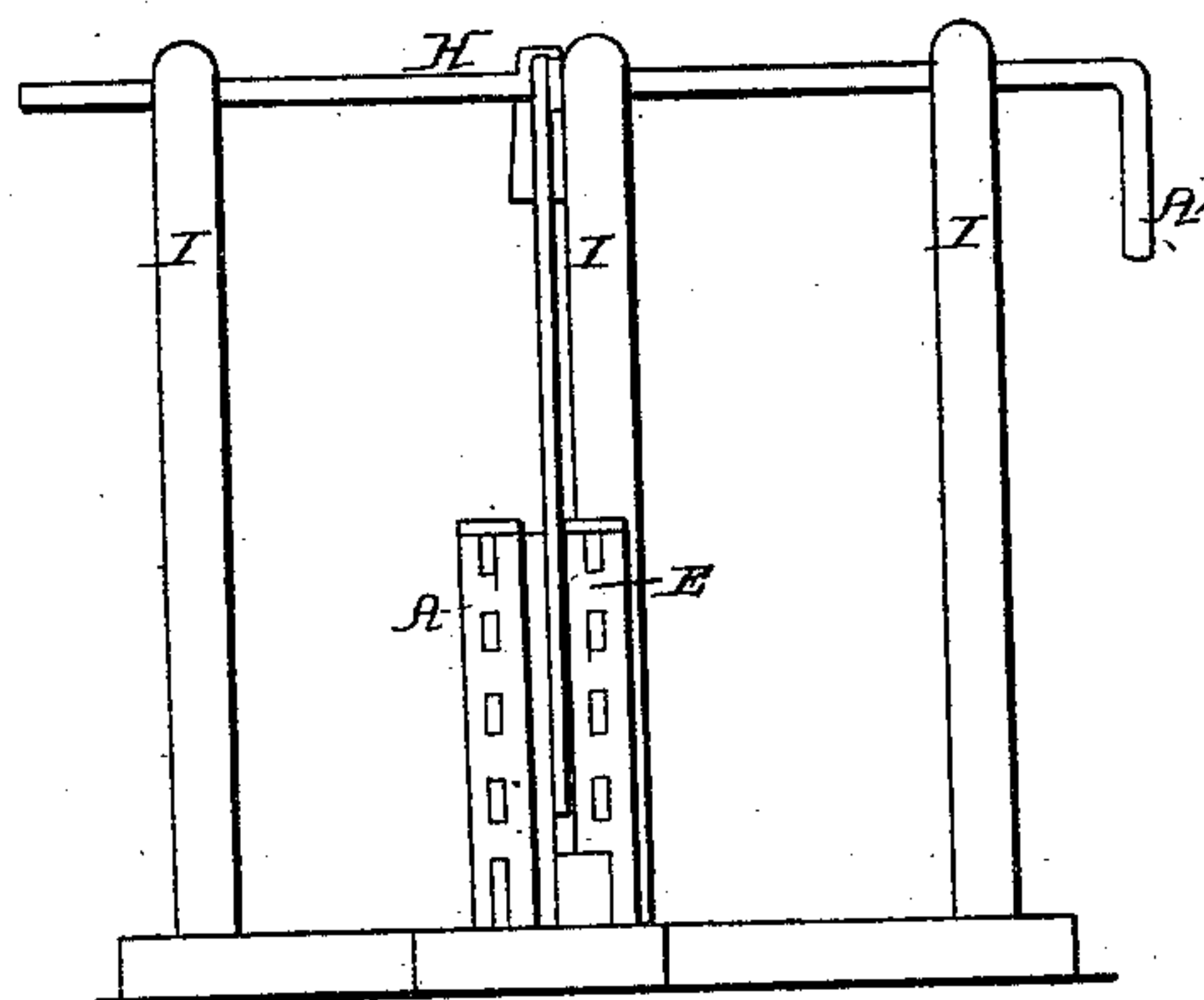
*Fig; 4.*



*Fig; 2.*



*Fig; 3.*



Witnesses;  
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E. E. Niles

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# United States Patent Office.

TIMOTHY W. JOHNSON, OF GRAINGER, OHIO.

*Letters Patent No. 78,670, dated June 9, 1868.*

## IMPROVEMENT IN FARM-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 I, TIMOTHY W. JOHNSON, of Grainger, in the county of Medina, and State of Ohio, have invented certain new and useful Improvements in Farm-Gates; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side view of the gate.

Figure 2, a top view.

Figure 3, an end view.

Figure 4, a section, to be referred to.

Like letters of reference refer to like parts in the different views.

A, fig. 1, represents the gate, which may be constructed in the ordinary way. B, B' are guides or links, the upper ends of which are pivoted to the upper rail of the gate B' at the end of the cross-piece C, and B to the end of the cross-piece D.

The lower ends of the links are pivoted to the base of the section of a fence, E, at such points that the two links are made parallel to each other, and are of equal length from pivot to pivot.

F is also a link, connecting the link B' to the inner arm of the lever G. Said lever is fitted to the shaft H, which has its bearings in the top of the posts I, fig. 3, which serves as a fulcrum for the vibration of the lever. J is a weight, to counterbalance the weight of the gate.

The practical operation of this gate is as follows: To open it from a carriage, the operator takes hold of the arm A', fig. 3, which, for greater convenience, may be extended so as to be within easy reach of the operator. On pulling the arm forward, the result will be to raise the minor end of the lever G, which will raise the link F to draw on the link B', and thereby elevate the gate, and at the same time carry it outward across the roadway, from the position shown in fig. 2 to that shown in fig. 1, which closes the gate.

The gate is thrown back or opened by a reverse movement, given to the arm A', which lifts the gate at the same time that it is thrown back; thereby clearing all obstructions, snow-drifts, &c., which may have become accidentally in the way.

In consequence of the weight J on the long arm of the lever, the gate is so nearly balanced that it is easily raised, hence it requires but little effort to close and shut it.

C', fig. 4, shows a circle, which it is proposed to attach to the bottom of the fence E. In the centre of this circle is pivoted the end of the link B', which is provided with a cleat, in length a trifle longer than the diameter of the hole, as indicated by the dotted lines *a*, thereby placing the ring between two pieces, the purpose of which is to give additional strength to the bottom of the gate, so that it cannot be forced out laterally.

What I claim as my invention, and desire to secure by Letters Patent, is—

The links B, B', gate A, links F, shaft H, and lever G, as arranged, in the manner as and for the purpose set forth.

TIMOTHY W. JOHNSON.

Witnesses:

J. H. BURRIDGE,

E. E. WAITE.