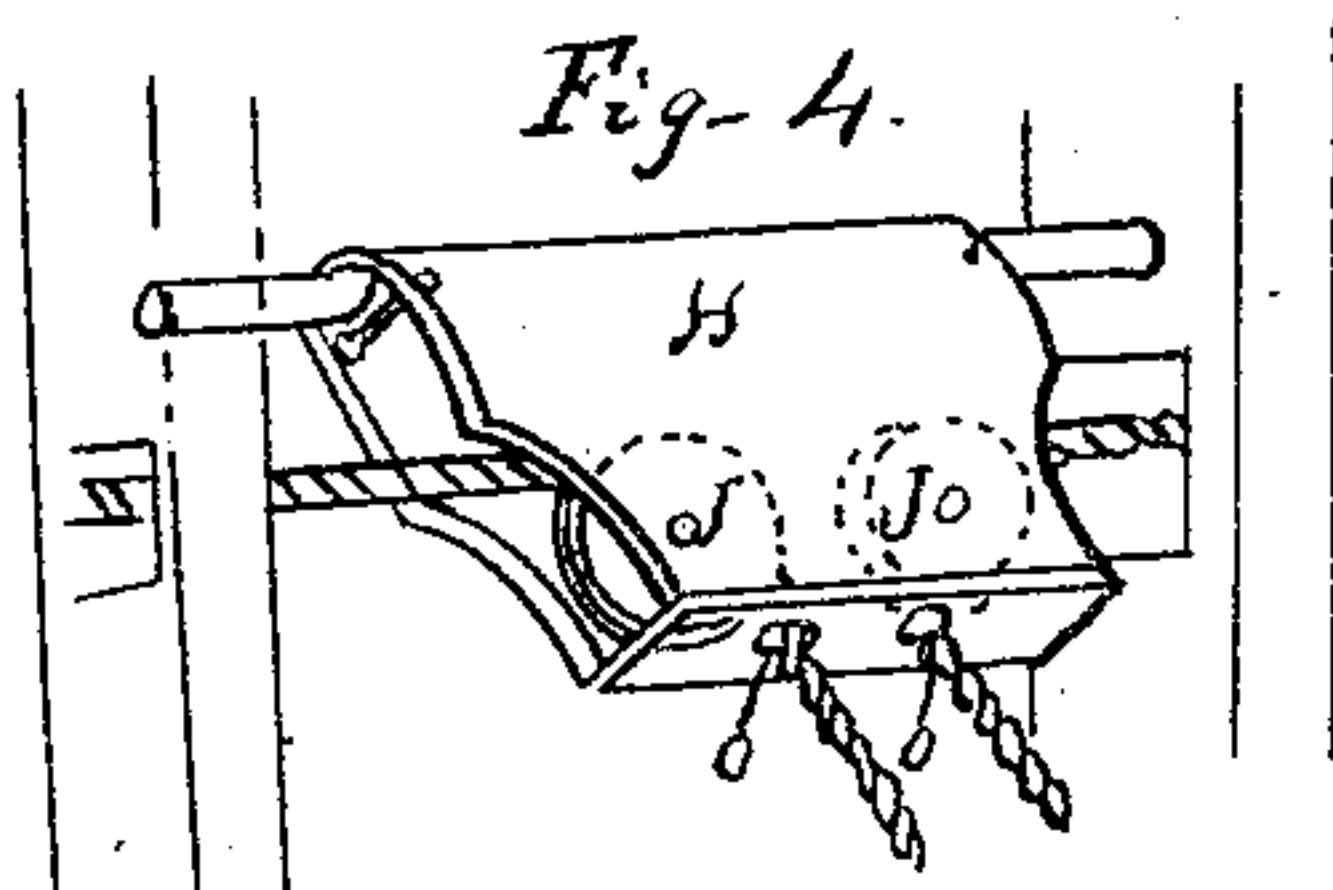
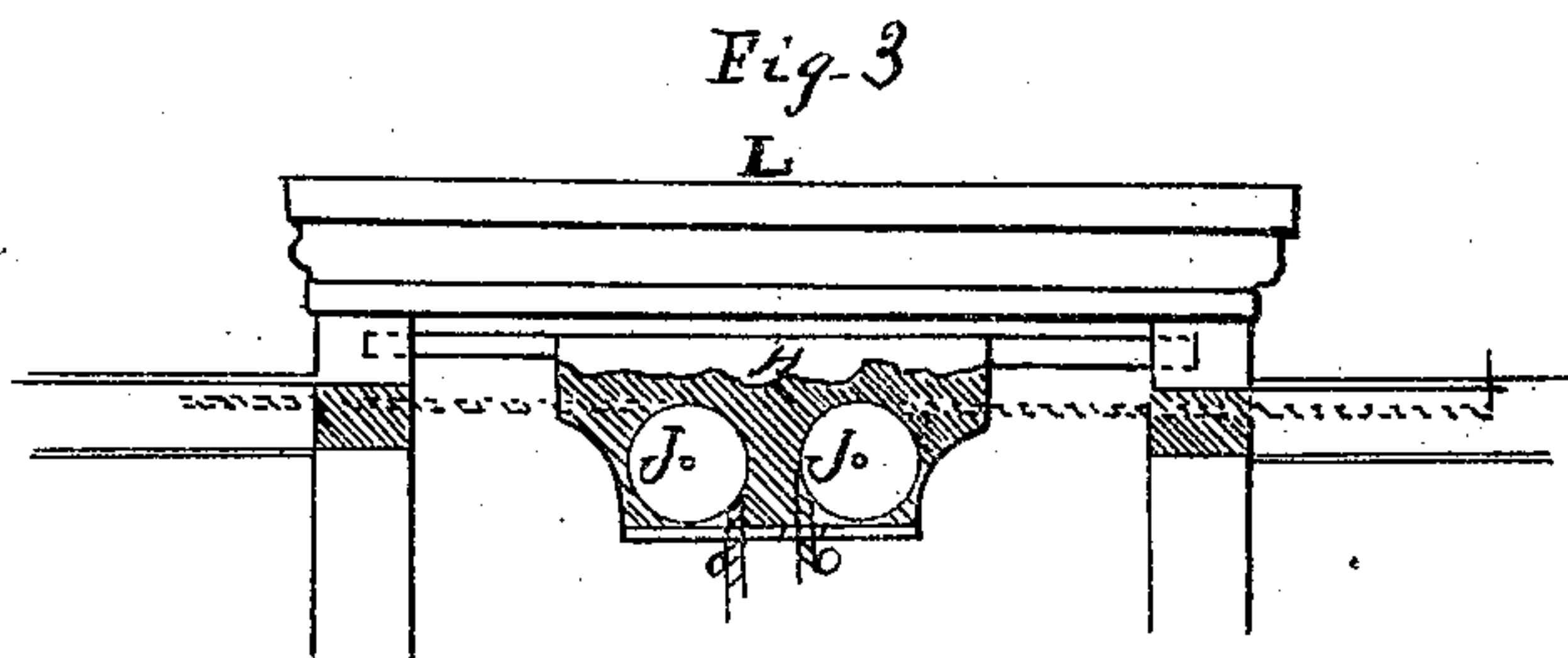
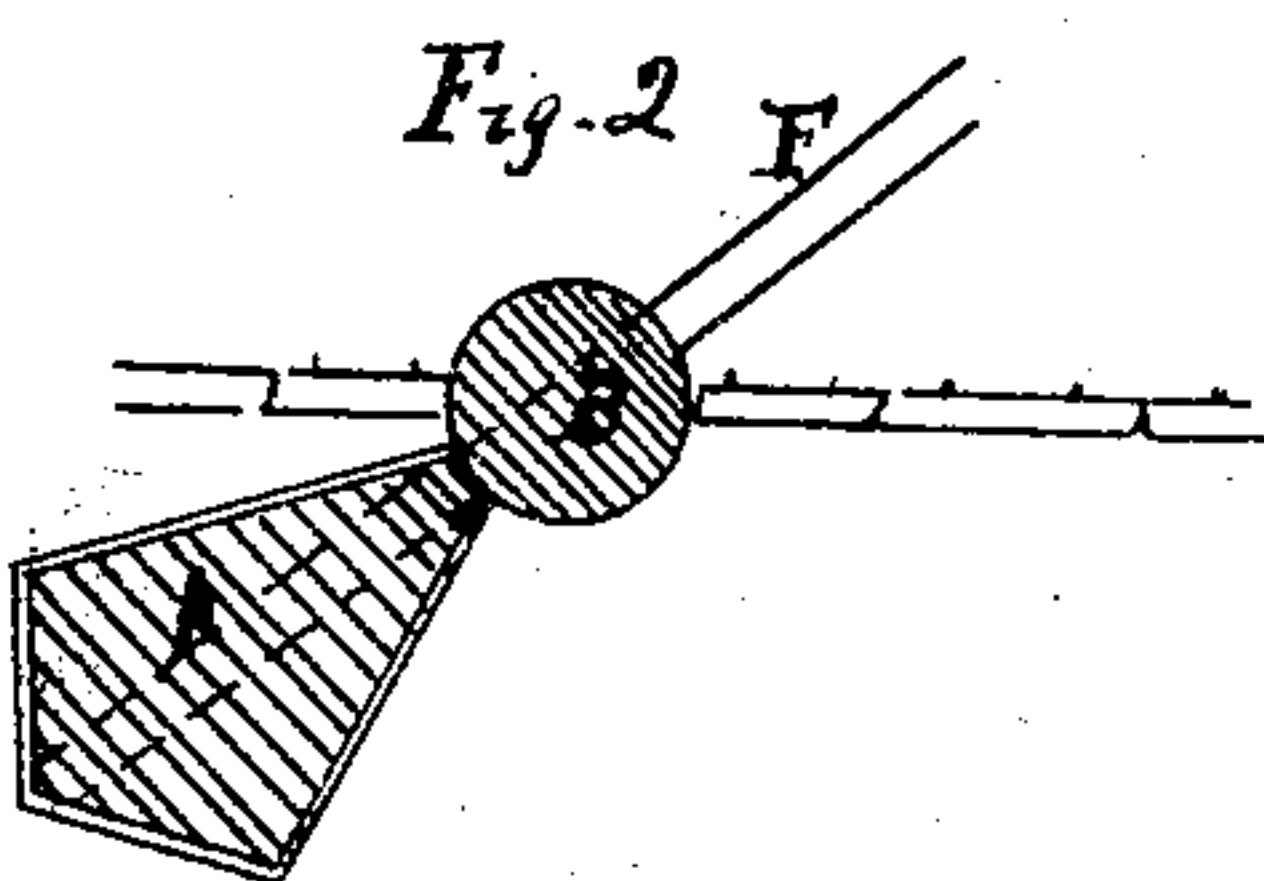
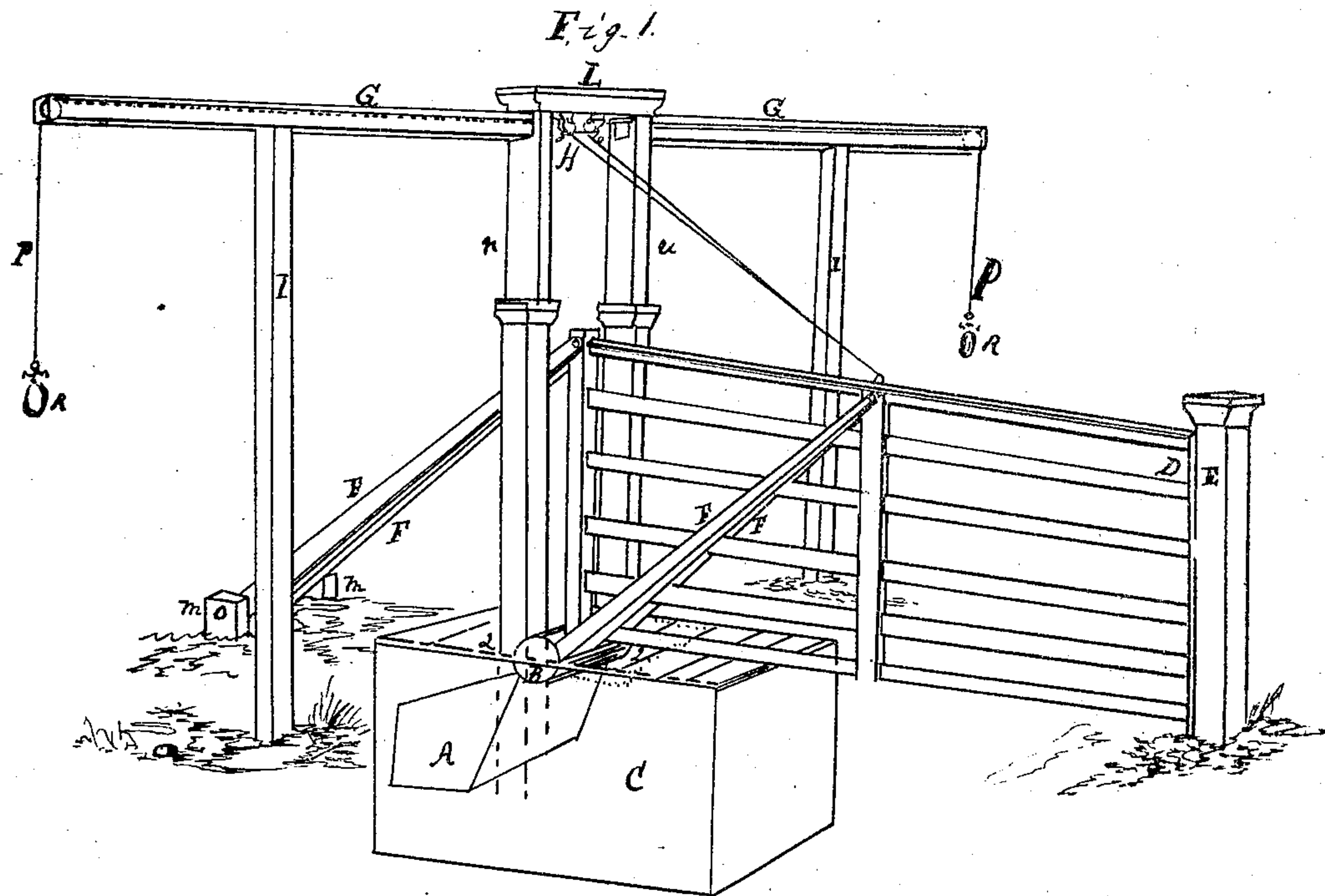


J Bowers

Gate

No. 75356

Patented March 10, 1868



Witnesses.

G. A. Stanton
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Inventor.

John Bowers.

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United States Patent Office.

JOHN BOWERS, OF CLINTON, WISCONSIN, ASSIGNOR TO ELIJAH W. BLAISDELL, JR., OF ROCKPORT, ILLINOIS.

Letters Patent No. 75,356, dated March 10, 1868.

IMPROVEMENT IN GATES.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, JOHN BOWERS, of Clinton, in the county of Rock, and State of Wisconsin, have invented a new and useful Improvement in the Construction of Carriage-Gates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of the specification, of which—

Figure 1 is a perspective view, and

Figures 2, 3, and 4 are detached sectional views of the parts or devices on which a patent is claimed.

Description.

Fig. 1. N N are the main gate-posts. L is the gate-cap. G G are covered arms or runways for the cord. K K are pulleys, over which cords P P run. I I are the outer posts. D is the gate. E is the post into which the gate shuts. F F are parallel levers. M M are anchors or rear posts, to which the lower ends of the rear levers are fastened by gudgeons. B is a wooden cylinder, through which the main levers pass, fastened to the main posts by gudgeons, on which said cylinder revolves. A is the balance-weight, affixed to the extension of the main levers F. C is the sunken box or pit, in which the balance-weight A vibrates when the gate is in motion. Q Q are the covers for the box C, which, together with the wooden cylinder B, protect box C against snows and rain. H is a double-swinging pulley-block, through which cords P P pass, guided by dead-eyes O O in front and end. R R are the handles for opening and shutting gate; all of which devices, parts, and portions, except those hereinafter claimed as new and novel, it is thought are well known to the public in connection with carriage-gates, and in general use.

Fig. 2 is a sectional drawing showing the extension of the main levers F, the wooden cylinder B, and the balance-weight A.

Fig. 3 is a sectional drawing showing the interior construction of the double-swinging pulley-block H, with the location and use of the double pulleys J J, and the cord passing over them.

Fig. 4 is a sectional drawing showing the swinging motion of the pulley-block H, suspended in the head or top of the main gate-posts by a single rod.

This gate is operated by means of inclined parallel levers, and is balanced by a weight attached to the lower end of the main levers, which are extended for that purpose, said weight working in a sunken box fixed in the ground, and protected from rain and snow by covering, as shown. The motive-power is applied by means of cords, attached in the ordinary way to the upper part of the gate, thence passing upward through dead-eyes into a double pulley-block, suspended by a single rod, or working in journals in the head of the gate, in such a manner as to partake of a swinging or lateral motion, as shown by diagrams.

By this arrangement, this gate, of full size, as has been shown by repeated experiment, may be opened and shut twenty-five or thirty times a minute, by a person standing on the same side of it, with a slight pull upon the handle. The full-sized gate works better, requiring a much less sudden pull upon the handles.

The points in this combination on which I claim a patent are these:

1. The extension of the main levers F F, and the application to the lower end of the same of the balance-weight A.

2. The double pulley-block, with dead-eyes to keep the cord on the pulleys, suspended on a single rod, or working with journals in the head of the gate, and operating with a swinging or lateral motion on the opening and shutting of the same, as shown by diagram.

I disclaim all other points, parts, or portions of the said combination, the same being, as I believe, with the exception of the points claimed above, public property by long and common use; but whether so or not, I disclaim them.

JOHN BOWERS.

Witnesses:

W. W. WOOD,

H. M. WEBB.