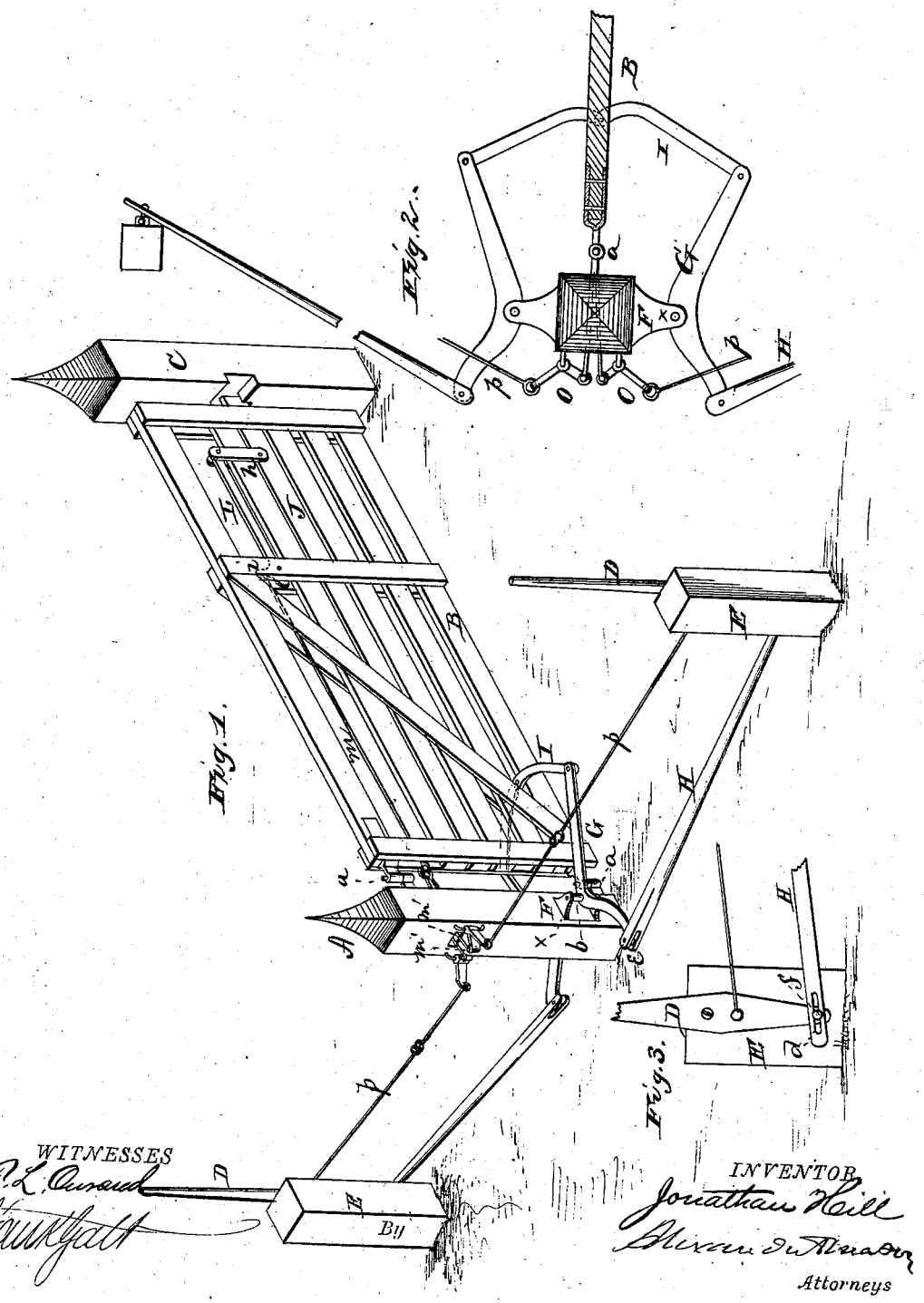
J. HILL.
Gate.

No. 207,274. Patented Aug. 20, 1878



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JONATHAN HILL, OF FRANKLIN, INDIANA.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **207,274**, dated August 20, 1878; application filed June 26, 1878.

To all whom it may concern:

Be it known that I, JONATHAN HILL, of Franklin, in the county of Johnson, and in the State of Indiana, have invented certain new and useful Improvements in Gates; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a device for opening and closing and fastening and unfastening a gate, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of a gate embodying my invention. Fig. 2 is a plan view of a part thereof. Fig. 3 is a detailed view of a part of the operating-lever and its connections.

A represents the post, to which the gate B is hung by means of hinges *a a* in such a manner that the gate can swing open toward either side. C is the post against which the gate closes. At a suitable distance from the post A on each side, and on a line at right angles with the gate when closed, is a post, E, to which a lever, D, is pivoted, as shown.

On each side of the post A is secured a bracket, F, in which is pivoted an elbow-lever, G, said lever being formed or provided at its bend with a vertical tube, *b*, that extends above and below the lever and fits in the bracket F. A pin, *x*, then passing through said tube and both arms of the bracket, connects and pivots the lever in the bracket.

One end of each lever G is, by a pivoted arm, I, connected with the gate B, while the other end of each lever G is, by a bar, H, connected with the lower end of the corresponding operating-lever D.

One end of the bar H is forked, as shown at *e*, which forked end straddles and is pivoted to the end of the lever G. The other end of bar H has a slot, *d*, which passes over a pin or screw, *f*, in the lower end of the operating-lever D, and thus forms the connection between the two parts. The object of the slot *d* will be hereinafter described.

It will readily be seen that by operating either of the upright levers D the gate can be easily opened and closed as required.

J represents the latch pivoted in the inner end of the gate and projecting sufficiently far beyond the outer end thereof to drop into a recess made for its reception in the post C. The latch J is, by links or bars *h h*, connected with one end of a lever, L, which is pivoted between the upright braces of the gate, and has a short arm, *i*, extending upward at the pivot-point. To this arm *i* is attached a wire, *m*, which extends inward and connects with two short rods, *m' m'*. These latter rods pass through a mortise in the post A and connect with two elbow-levers, O O, pivoted on the back of said post. The other end of each elbow-lever O is, by a jointed rod, *p*, connected with the corresponding operating-lever D.

By these means the latch is raised and the gate opened by the same movement of either lever D, the slot *d* in the end of the bar H allowing a sufficient movement of the upright lever D to raise the latch to be unfastened before it begins to open the gate, and allows the latch to drop into its fastening when the gate is closed.

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

1. In combination with the gate B, the latch J, bars *h*, lever L, with arm *i*, wires *m m'* and *p*, elbow-lever O, and operating-lever D, all constructed and arranged substantially as and for the purposes herein set forth.

2. The combination of the operating-levers D, wires *p*, arms H, elbow-levers G G and O O, and devices, substantially as described, for connecting said levers, respectively, with the gate and gate-latch, as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of May, 1878.

JONATHAN HILL.

Witnesses:
JOHN T. YAGER,
LUTHER SHORT.