

J. S. Funk,

Lifting Jack.

No. 100,390.

Patented Mar. 1. 1870.

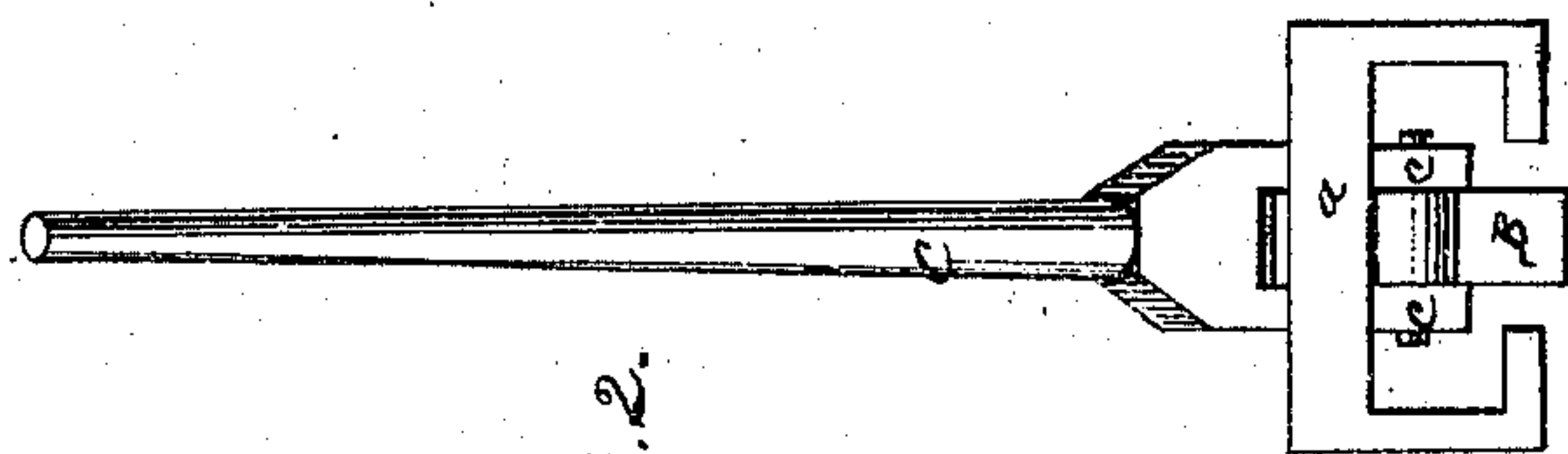


fig. 2.

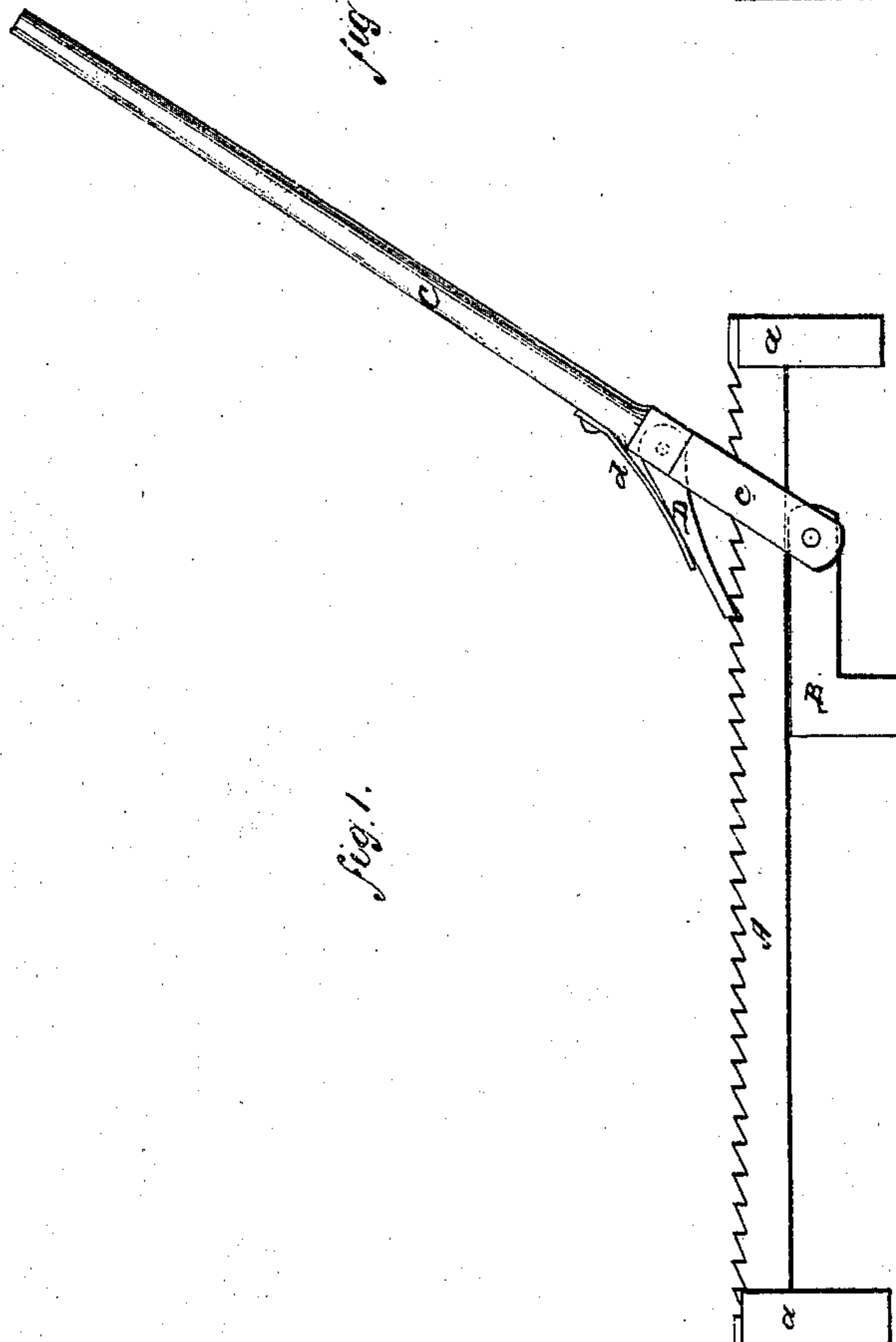


fig. 1.

Witnesses:

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United States Patent Office.

JOHN S. FUNK, OF MARYSVILLE, PENNSYLVANIA.

Letters Patent No. 100,390, dated March 1, 1870.

IMPROVEMENT IN JACKS FOR MOVING THE CROSS-HEADS OF LOCOMOTIVES.

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, JOHN S. FUNK, of Marysville, in the county of Perry, and State of Pennsylvania, have invented a new and improved Jack for moving the Cross-Heads of Steam-Engines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

The figure is a side elevation.

This invention has for its object to move the cross-heads of locomotives or other engines when disconnected from connecting-rods, so as to get the striking-points of pistons and cylinder-heads.

It consists of a ratchet-bar, A, to each end of which is securely attached, at right angles to the bar, a clamping-socket, *a*, whose office it is to inclose the guide-ways in which the cross-head moves, and be fastened thereto by means of keys.

B is the hook intended to be placed upon the cross-head.

C is a lever, forked at one end so as to embrace the ratchet-bar between the ends, to the branches, *c c*, of which lever the hook B is jointed.

D is a pawl, pivoted at one end to the lever C at the junction of the branches *c* of the latter, and resting at the other end on the serrated side of the ratchet-

bar, against which the pawl is continually pressed by a spring, *d*.

As is evident, it is by moving the lever C back and forth that the cross-head is drawn along in the guide-ways, such drawing being effected while the lever is being raised toward the perpendicular, and the lever gaining distance along the ratchet every time it is lowered. The cross-head may be moved at every stroke from one sixty-fourth of an inch up to two inches, and the machine may be operated by a child.

To reverse the motion of the cross-head it is only necessary to remove the pin which joins the hook B and lever C together, reverse the ratchet-bar, and then replace the pin.

Having thus described my invention,

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

The combination of the ratchet-bar A, clamping-sockets *a*, hook B, lever C, and pawl D, either with or without the spring *d*, in the manner and for the purpose described.

To the above specification of my invention I have signed my hand this 18th day of January, 1870.

JOHN S. FUNK.

Witnesses:

GEO. H. VANTILBURG,
CHAS. M. DICKINSON.