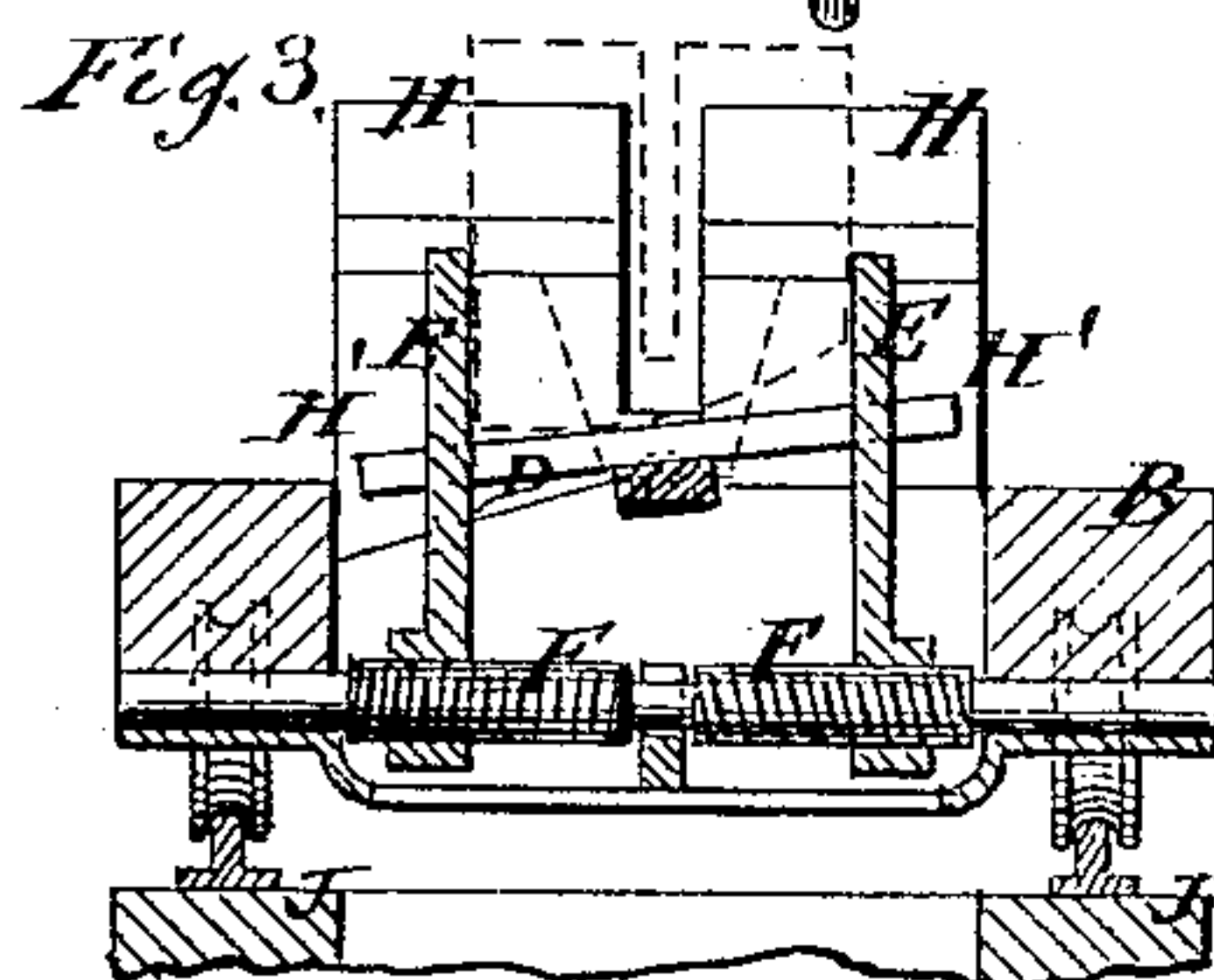
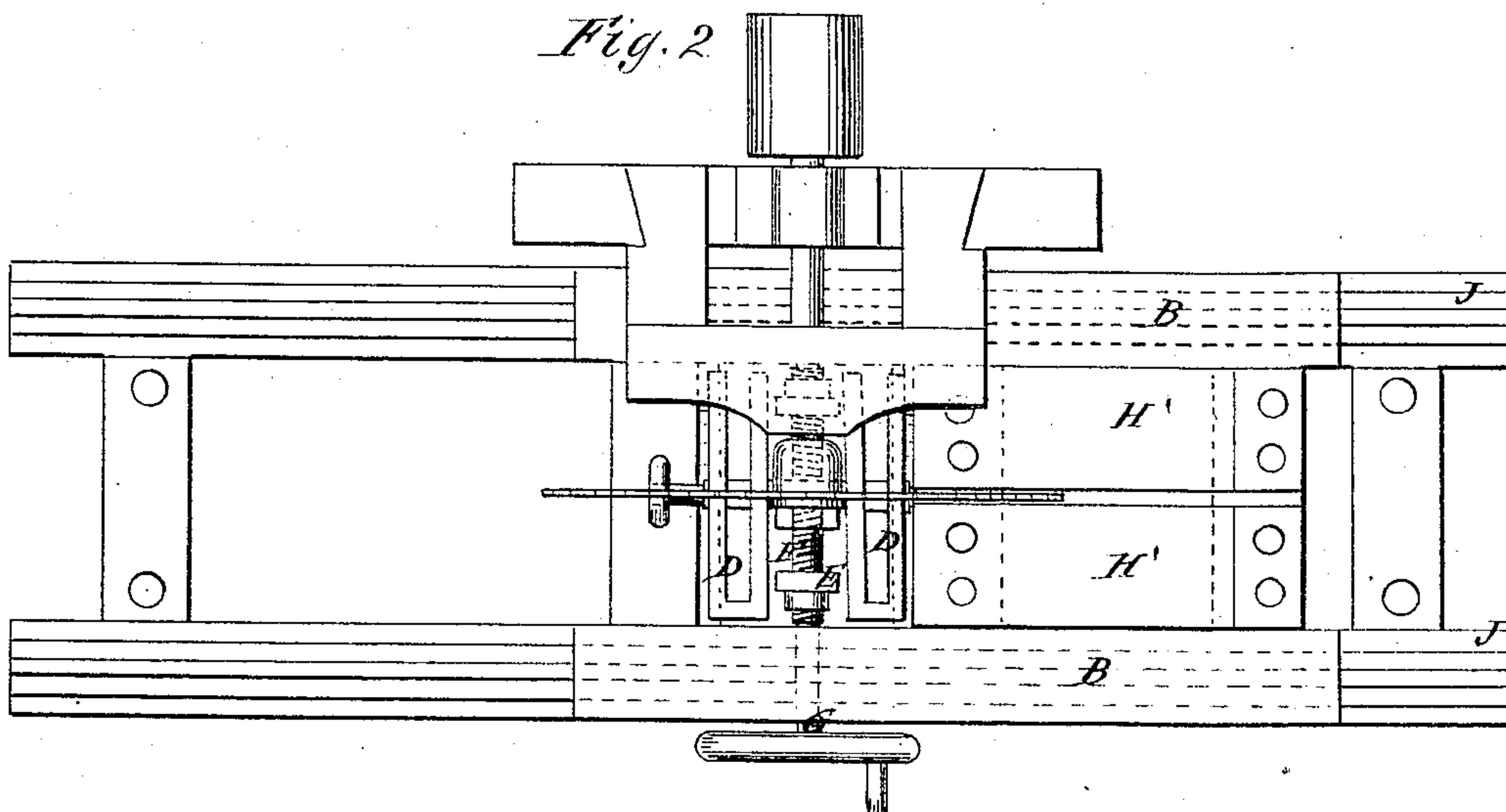
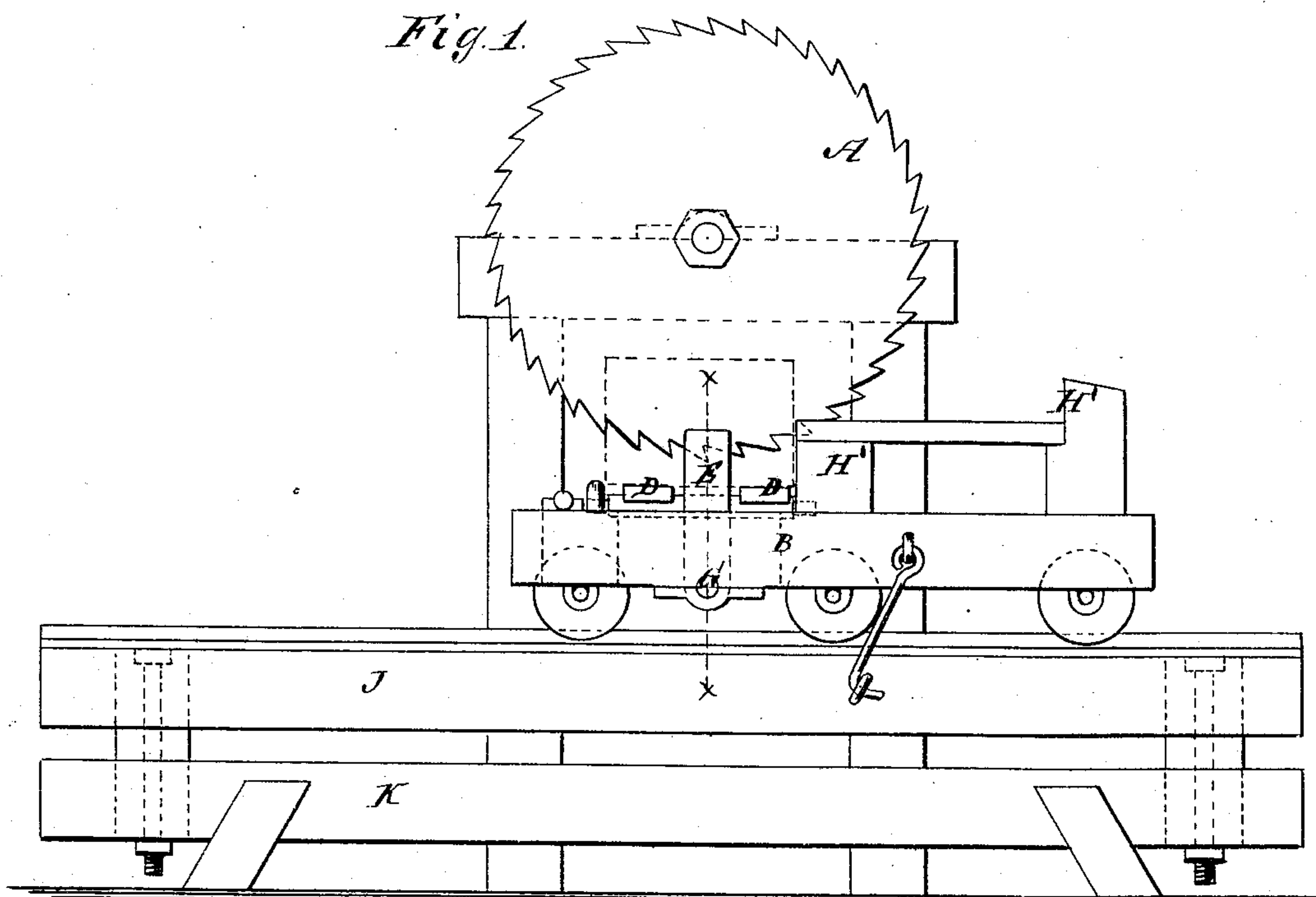


W. A. FLETCHER.
Shingle-Bolting Machines.

No. 157,317.

Patented Dec. 1, 1874.



WITNESSES:

E. Wolff.
Bedgwick

INVENTOR:

W. A. Fletcher
Munn & Co.

BY

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM A. FLETCHER, OF BEAUMONT, TEXAS.

IMPROVEMENT IN SHINGLE-BOLTING MACHINES.

Specification forming part of Letters Patent No. **157,317**, dated December 1, 1874; application filed August 1, 1874.

To all whom it may concern:

Be it known that I, WILLIAM A. FLETCHER, of Beaumont, in the county of Jefferson and State of Texas, have invented a new and Improved Shingle-Bolting Machine, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

Figure 1 is a side elevation of my improved machine. Fig. 2 is a plan view, and Fig. 3 is a transverse section taken on the line *xx* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the saw, which may be mounted in any approved way. B is the carriage, which runs under the saw, being a little lower at the point where the bolt rests than its lower edge, in order that it will not cut quite through, thus leaving the two parts of the rebolted bolt attached by a breadth of timber sufficiently strong to allow of handling and dogging them in the shingle-machine without splitting it. D is a tilting rest for the bolt, which will be placed with the sap side, which is generally bevel, to the other sides on it, and will thus be held so that its middle, over which the kerf is to be made by the saw, will drop down to the axis of the rest, and thus be suitably adjusted to leave the required thickness of timber for holding the partly-separated bolt

together, no matter how much the bottom may be inclined to the sides. E represents a pair of clamps for securing the bolts to be sawed. They are fitted on a right-and-left-hand screw, F, to be worked by a crank at G, for opening and closing them. The object in resting the block on the sap side is to have the connecting portion of the bolts left by the rebolting-saw come in the sap side. The bolt is represented by the dotted lines H in the position in which it is presented to the saw. H' represents an elevated portion of the carriage whereon pieces may be placed to be sawed entirely through, as in ordinary sawing-machines. The track for the carriage is made in two parts, J and K, one mounted on the other, so that the upper part can be adjusted up and down to the saw, as may be required for saws of different sizes, and as each saw wears away.

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

The combination of pivoted rest D with the two clamps, operated by a single shaft, having right and left screw-threads, as and for the purpose specified.

WILLIAM ANDREW FLETCHER.

Witnesses:

W. A. CUSHMAN,
JNO. C. CRAIG.