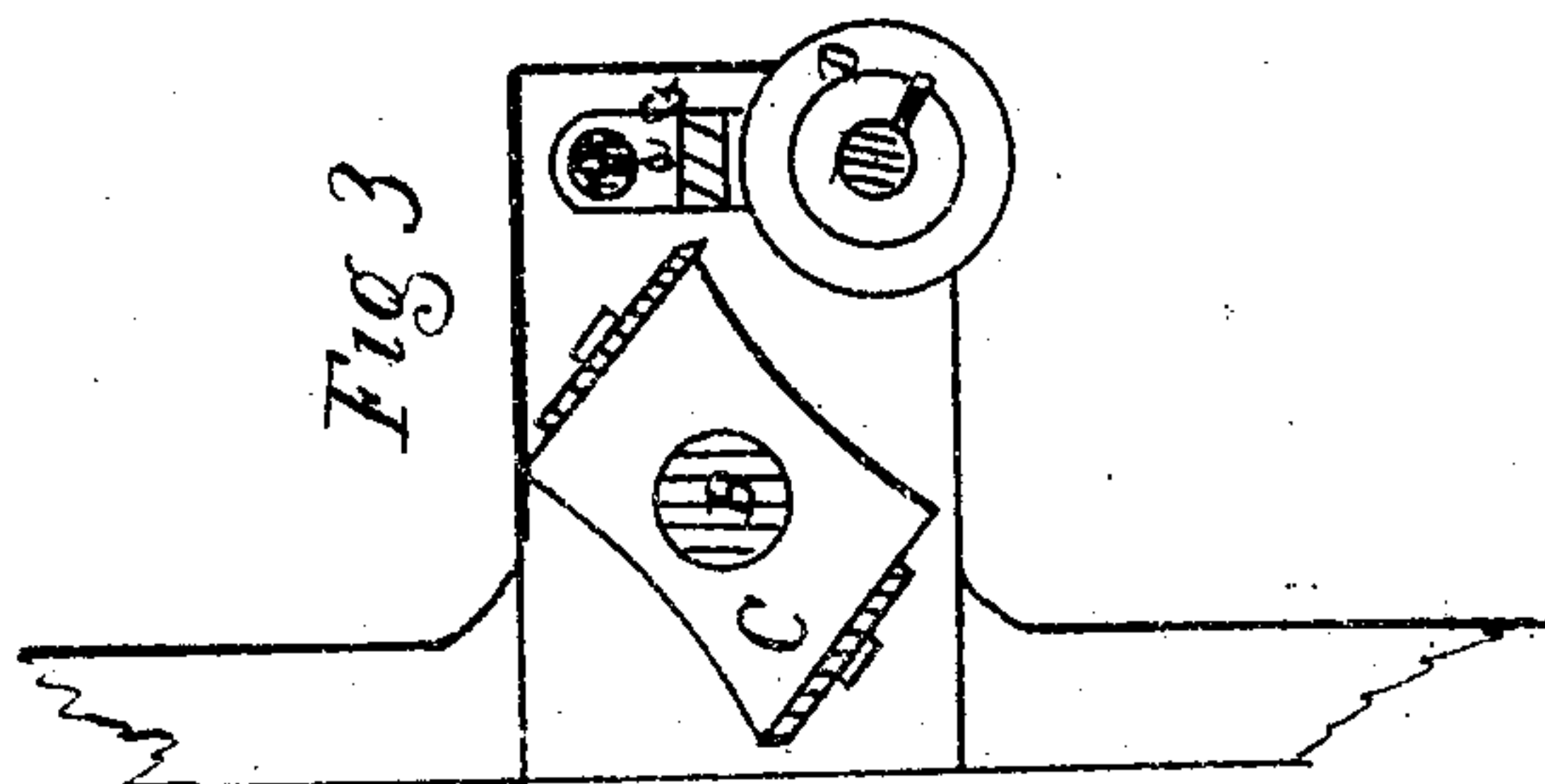
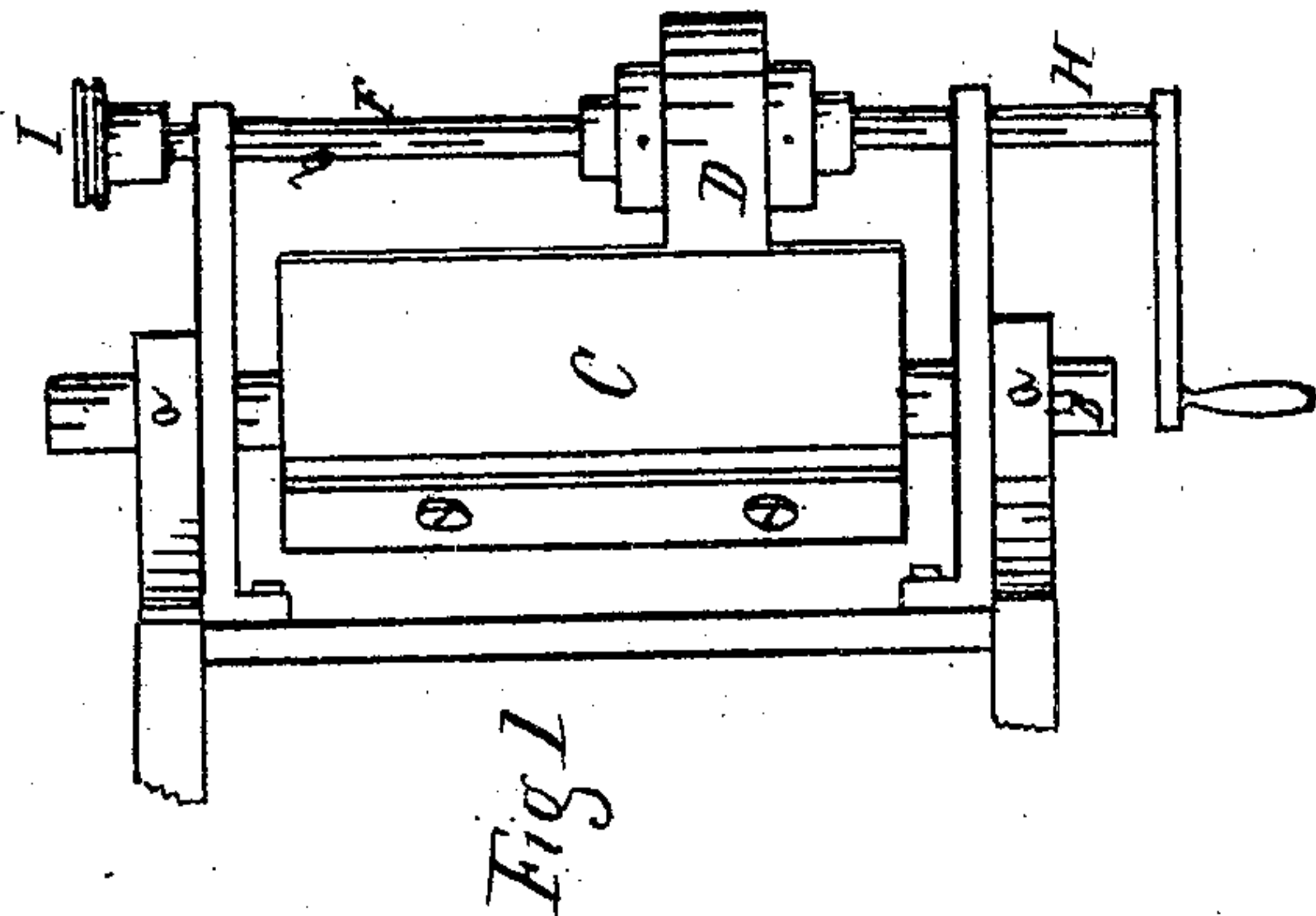
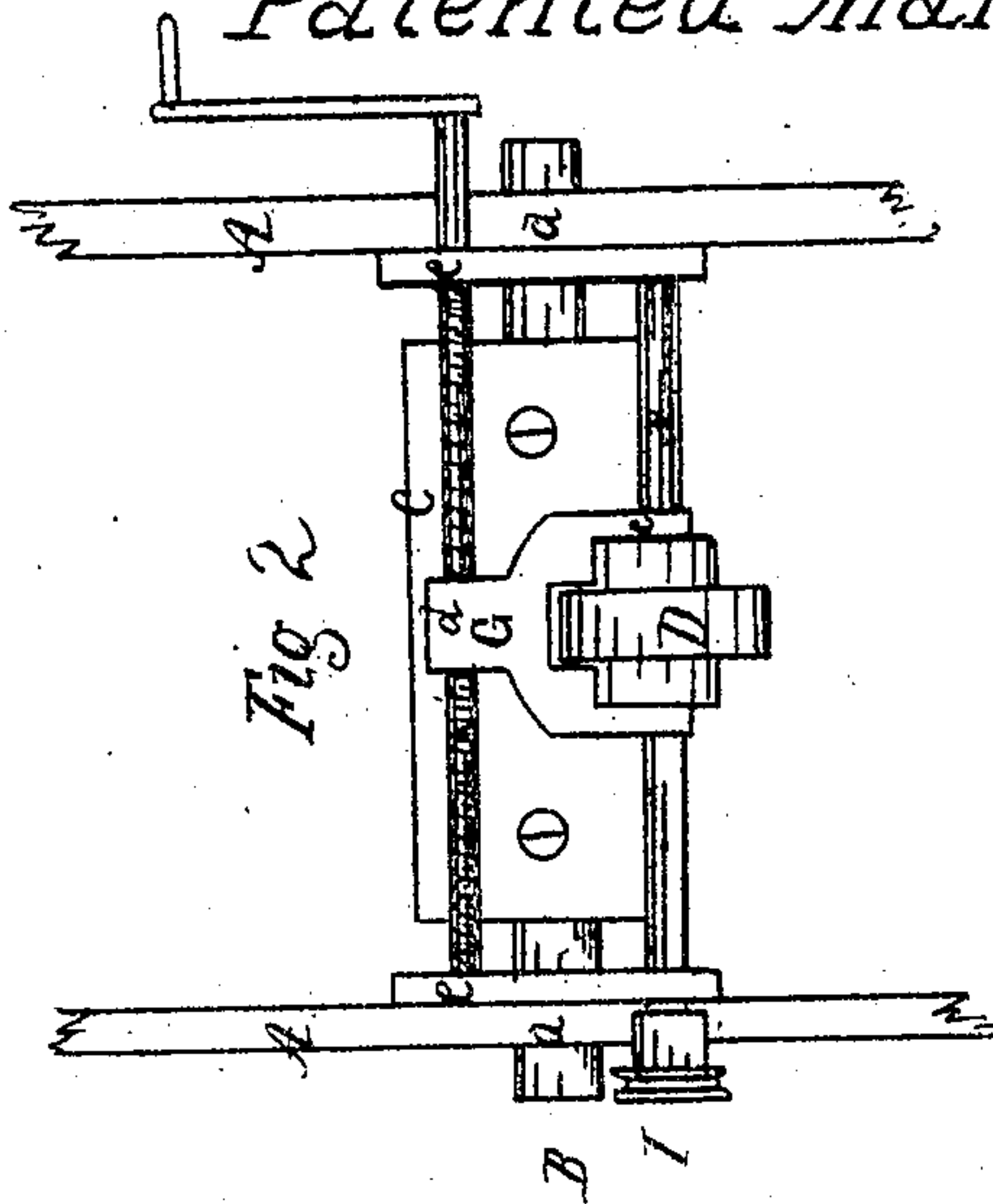


J. Grant.

Grinder for Knife for Planer.

N^o 75411

Patented Mar. 10, 1868



WITNESSES.

Ref. Hydr.
Edward A. Hyde

INVENTOR.

John Grant

United States Patent Office.

JOHN GRANT, OF NORTHAMPTON, MASSACHUSETTS.

Letters Patent No. 75,411, dated March 10, 1868.

IMPROVEMENT IN GRINDER FOR KNIVES FOR PLANERS.

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 GRANT, of Northampton, Hampshire county, Commonwealth of Massachusetts, have invented a new and useful improved "Planer-Knife Grinder;" and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon. In the drawings—

Figure 1 represents a front view.

Figure 2 a plan view, and

Figure 3 a vertical section of my invention.

This invention is a device by which planer-knives may be sharpened easily, and with regularity of bevel.

It consists of a frame, A A, having a shaft, B, set in bearings *a a* upon each side of the frame. Upon this shaft B is a block, C, upon which the knives are set, so that their edges may be brought in contact with an emery-wheel, D. This emery-wheel is arranged upon a spindle, F, so that the latter, in turning, turns the wheel with it. Yet the wheel can be moved laterally along the spindle without interrupting the revolution of either. This is accomplished by means of a groove, *b*, running the length of the spindle in its surface, into which fits a pin set in the shoulder of the emery-wheel.

The device for moving the emery-wheel laterally, consists of a piece, G, which straddles the wheel, the spindle F passing through its ends *c c*, while the other end, *d*, has threads cut through it, in which works a screw, H, working in bearings *e e* in the sides of the frame A A. Upon the continued end of this screw is placed a crank, so that, by turning the latter, the emery-wheel is moved in either direction, as may be desired, along the edge of the knife-blade. A pulley, I, upon one end of the spindle F, allows power to be applied.

The advantages of this device are that the knives may be easily ground, and perfectly regulated, with far less work than by hand, and without necessitating the removal of the knives from the planer.

Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A device for sharpening the knives of planers and similar tools, consisting of the screw H, piece G, wheel D, and ground spindle F, the parts and the whole being constructed and arranged substantially as shown.

JOHN GRANT.

Witnesses:

EDWARD H. HYDE,

R. F. HYDE.