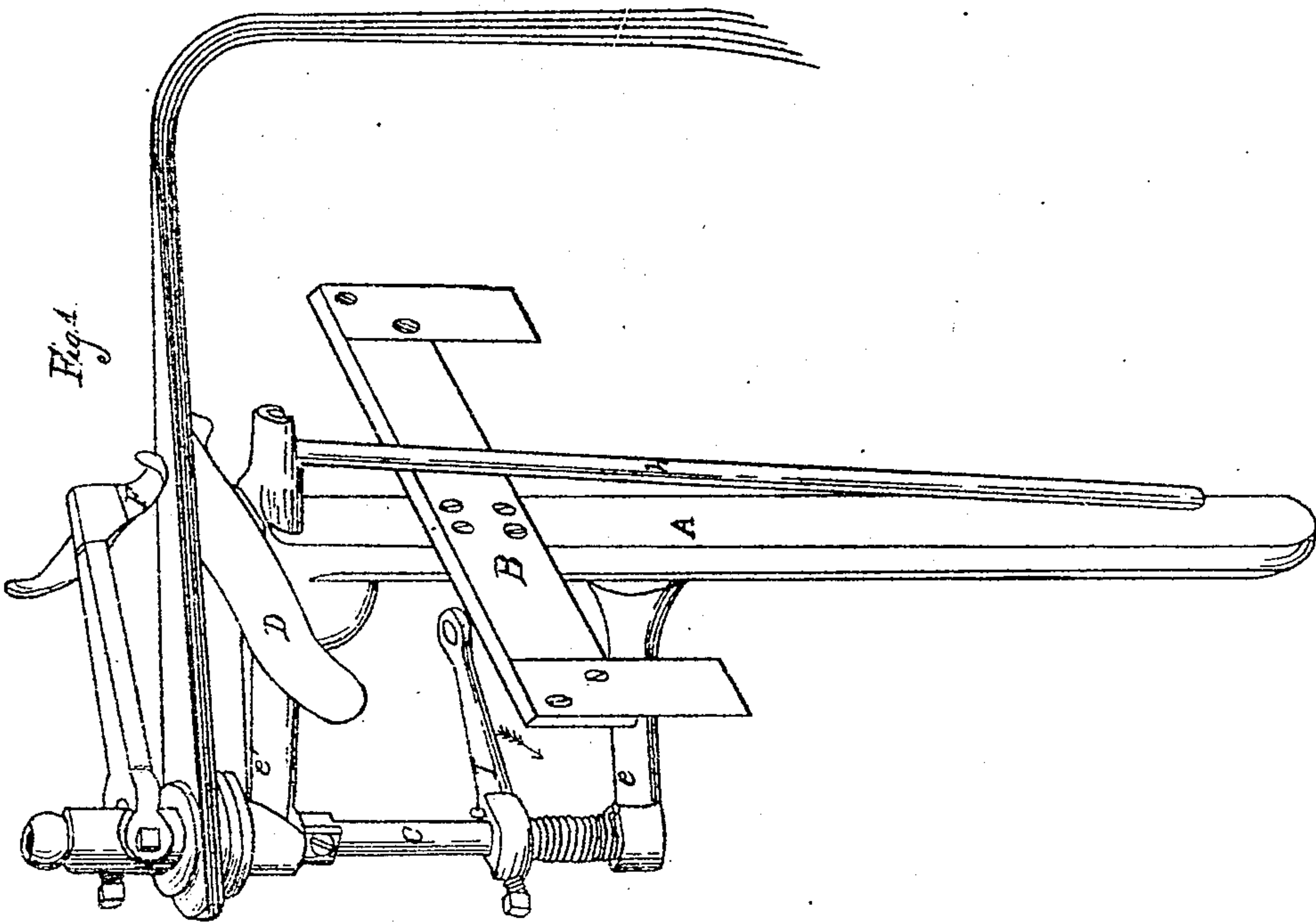
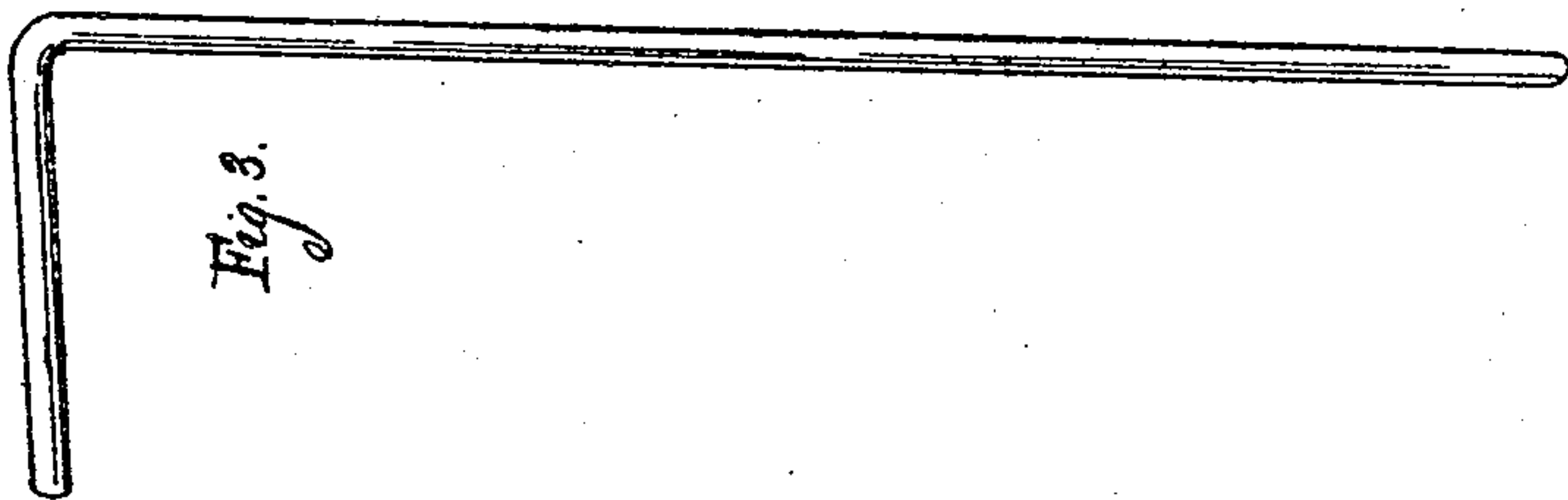
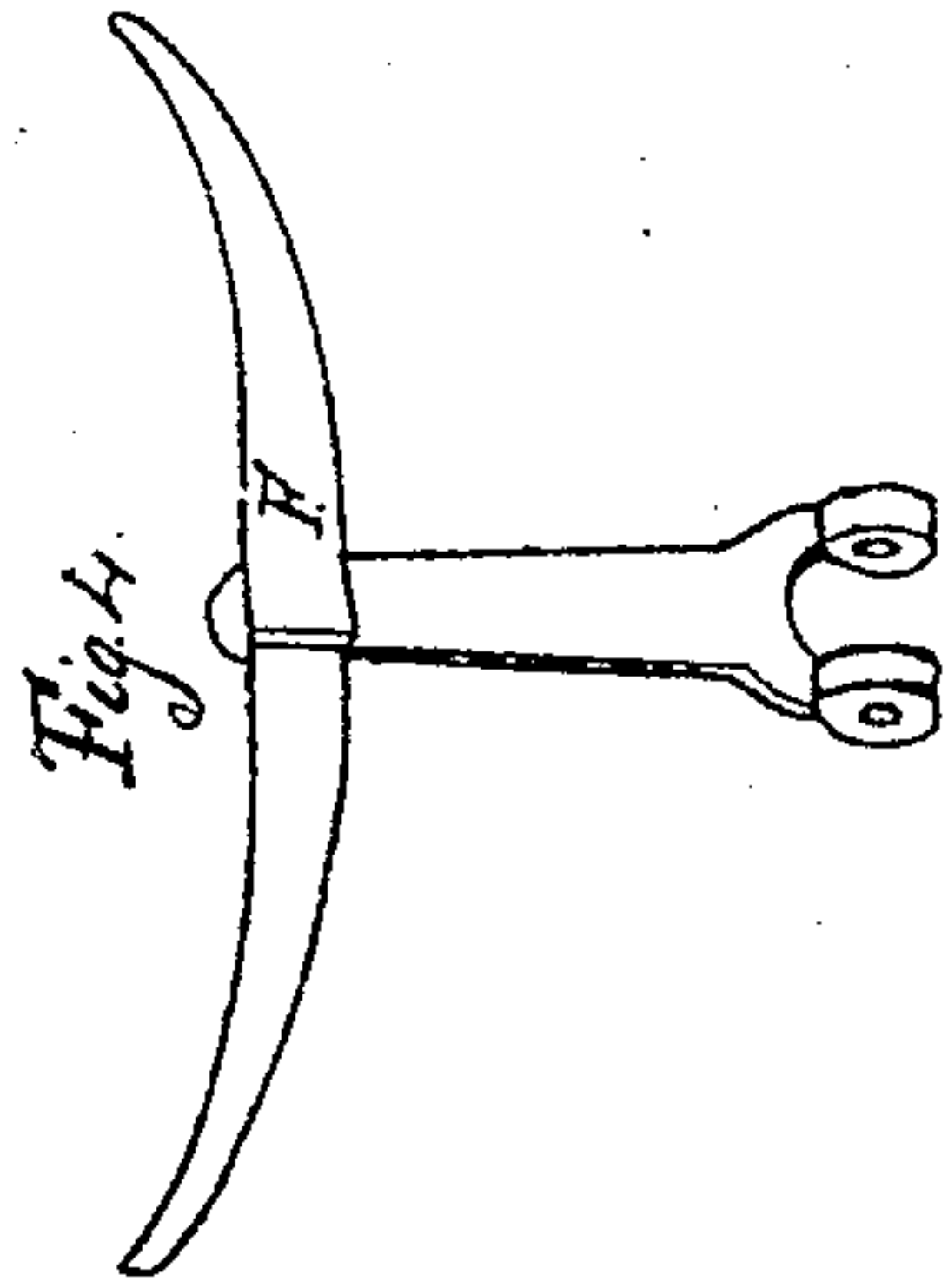
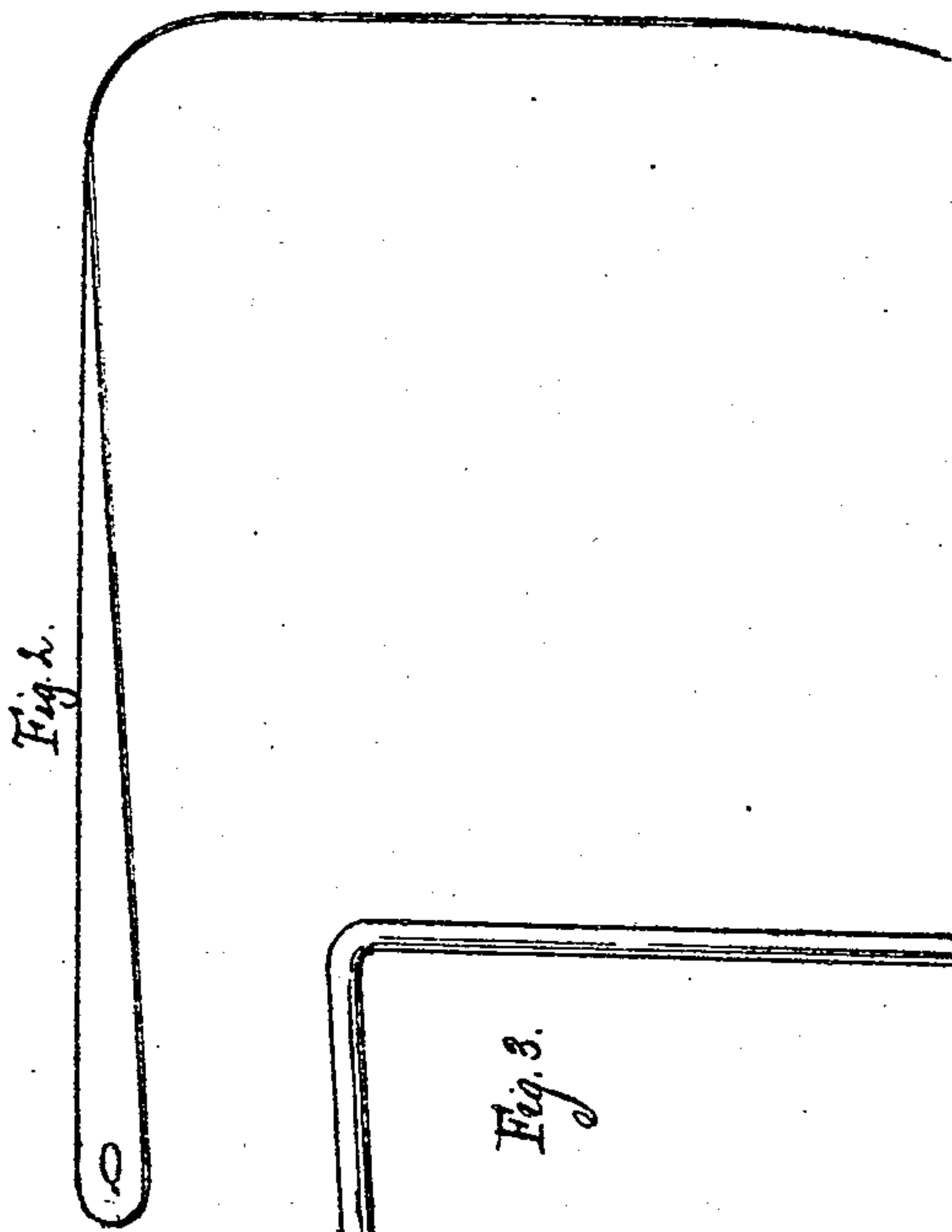


*Thos. Goodrum,  
Leaf-Turner.*

*Nº 73979.*

*Patented Feb. 4. 1868.*



*Witnesses  
John D. Thurston  
Charles L. Spencer*

*Inventor  
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# United States Patent Office.

THOMAS GOODRUM, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO WILLIAM E. GREEN AND CHARLES W. H. DAY, OF SAME PLACE.

*Letters Patent No. 73,970, dated February 4, 1868.*

## APPARATUS FOR TURNING THE LEAVES OF MUSIC.

*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, THOMAS GOODRUM, of Providence, in the county of Providence, and State of Rhode Island, have invented a new and useful Improvement for Turning Leaves of Music; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my invention.

Figures 2, 3, and 4 are detailed parts.

In the accompanying drawings, A, fig. 1, is a flat strip of wood, a short distance from one end of which, and on its front surface, is fastened a cross-piece, B. Each end of this cross-piece is provided with a plate of brass, extending below its lower edge, and, in connection with A, forms a clamp, for the purpose of holding my invention on the desk of a piano-forte or an organ. On the back surface of A are two arms, *e* and *e'*, having a spindle, C, fitted to their extended ends, and protruding a suitable distance through *e'*. Fig. 2 is a piece of metal, made tapering, and bent at an angle near its centre, called a finger, the largest end of which has a hole, and fits easy on spindle C. I have five of these fingers on my invention, as shown in fig. 1, but I am not confined to that number, as more or less can be used, as desired. D, fig. 1, is a piece of metal, fastened to the upper end of A, used as a rest, and for the metal fingers to slide upon. F, fig. 1, is a strip of brass, the ends made curving, and on its under surface is a ratchet projection, as shown in fig. 4. The ratchet-edge is raised the same thickness as one of the metal fingers, to fit and move only one finger at a time when in use. F is fastened to a lever, and the lever connected to spindle C by a hinge-joint, above the metal fingers. *h*, fig. 3, is a piece of wire, bent at an angle, for the purpose of holding sheet-music, it being applied to my invention by sliding the short bend into a socket, at the upper end of A, fig. 1. This socket is drilled through into the arm *e'*, so that the short bend of wire can be pressed in the distance required, to hold different thicknesses of music. On the lower end of spindle C is a coiled spring, one end connected to arm *e*, the opposite end of which is attached to a lever, I. This lever is fastened to spindle C with a set-screw.

To use my invention, a string or cord is fastened to lever I. The opposite end of string is connected to a foot-treadle, near the floor. The taper ends of the fingers are placed between the pages of music, and, when desired, the foot-treadle is worked by the foot, drawing the lever I in the direction of the arrow, fig. 1. This lever I, being fastened to spindle C, causes it to turn in connection with F, upon which the ratchet-edge comes in contact with the top or first finger, moving it to the left, and opening one leaf or sheet of music. By raising the foot from the treadle, the coiled spring on spindle C draws the connections back to their places, thus bringing F in position to act on the second finger, as the first finger is not carried back. To prevent the spiral spring from drawing too far, I have made a ring on spindle C, with a set-screw, to bring up against a wire stud on arm *e'*. By operating the treadle, all the fingers can be moved one by one, as the number may be.

The great advantage of my invention is, the player can open his music without removing his hands from the keys of his instrument, as F is fastened to a lever, and this lever connected to spindle, C, by a hinge-joint. Different number of fingers can be used, for F will raise or lower, to adapt itself to them.

What I claim as my invention, and wish to secure by Letters Patent of the United States, is—

The ratchet-plate F, hinged to and operated by the spindle C and lever I, in combination with the fingers, for turning over the leaves of music-books, substantially as shown and described.

THOMAS GOODRUM.

Witnesses:

WM. E. GREENE,

CHARLES L. SPENCER.