

T. H. LEVING.
MUSIC LEAF TURNER.
APPLICATION FILED JUNE 17, 1908.

919,367.

Patented Apr. 27, 1909.

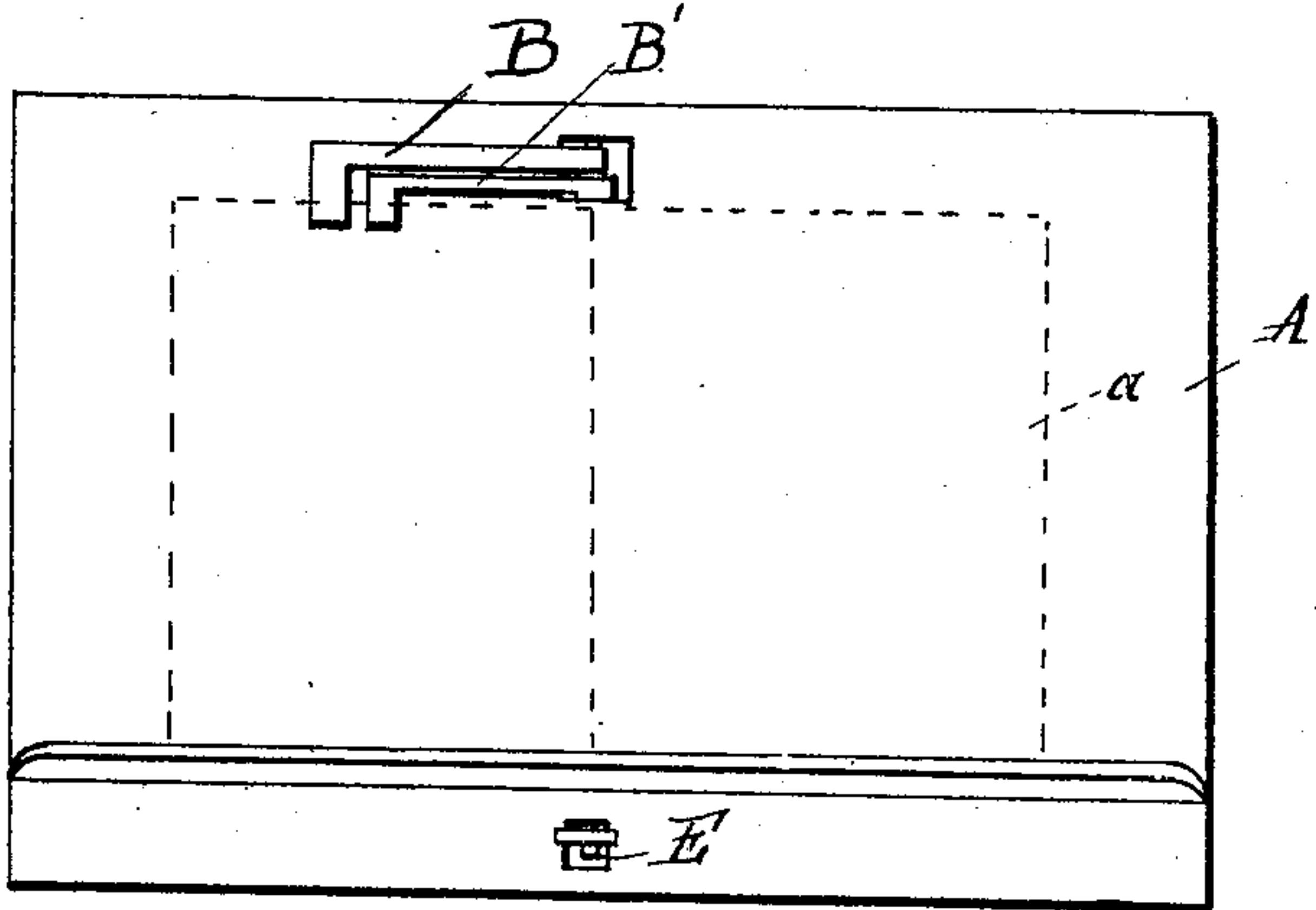


Fig 1

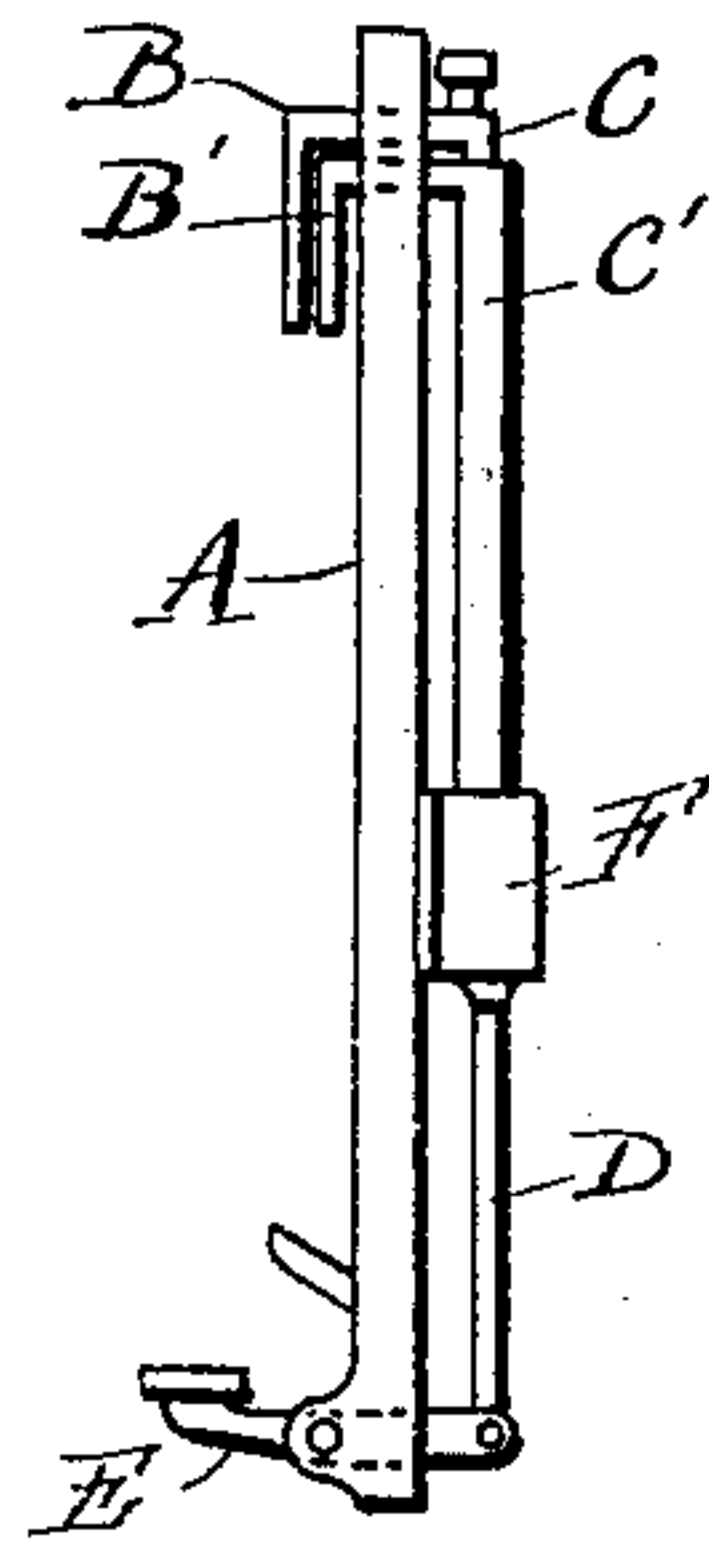


Fig. 2

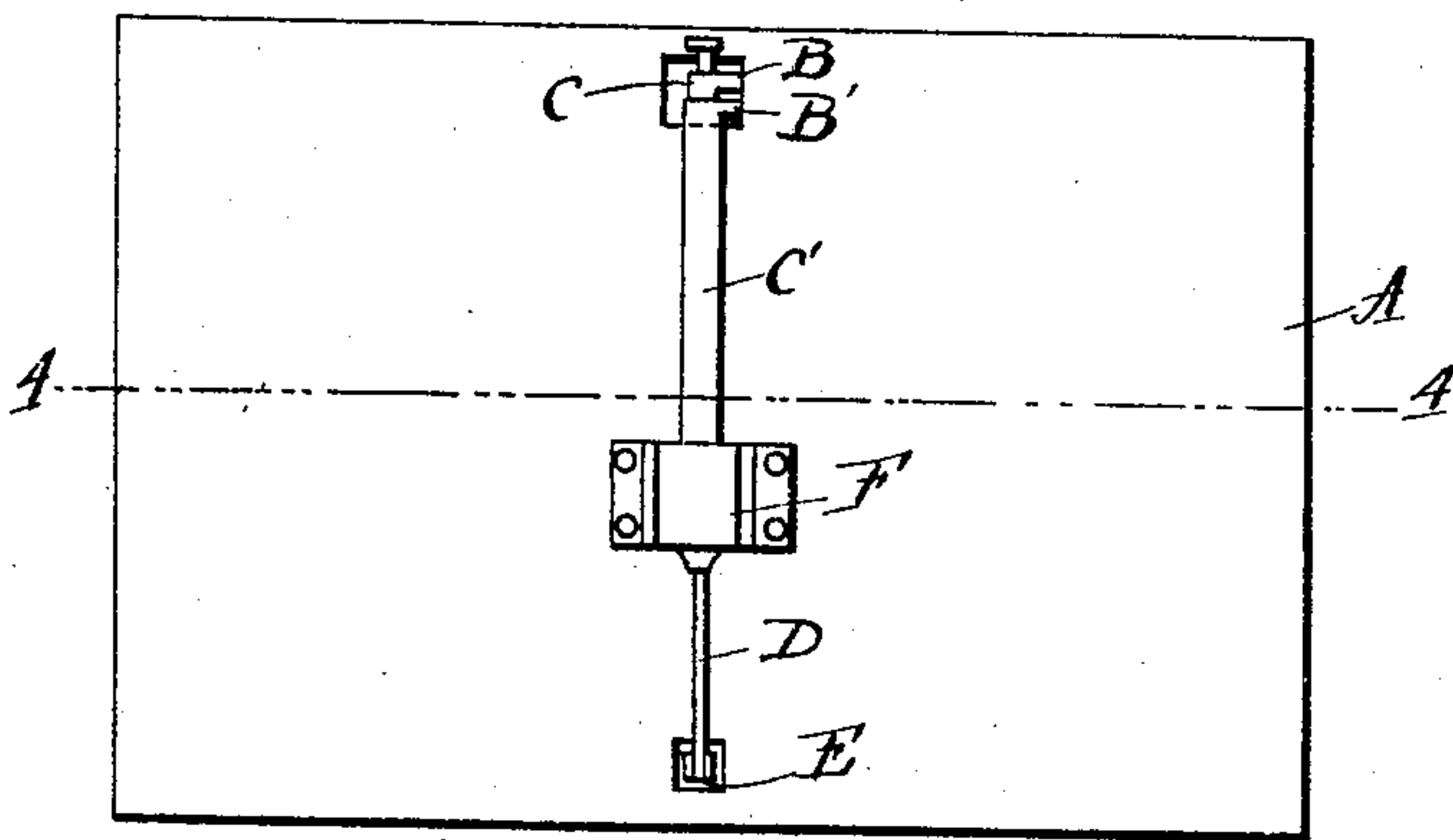


Fig 3

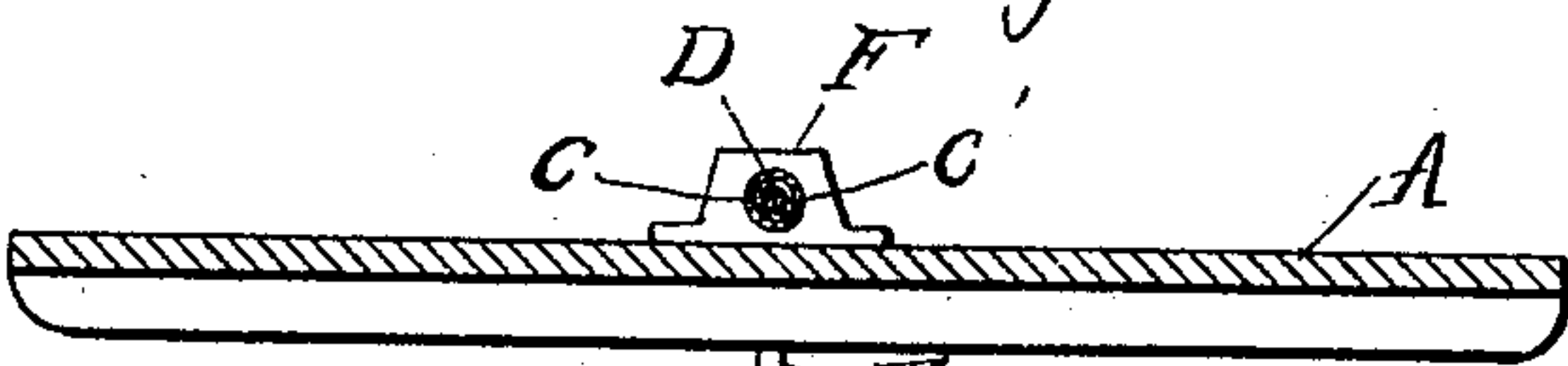


Fig 4

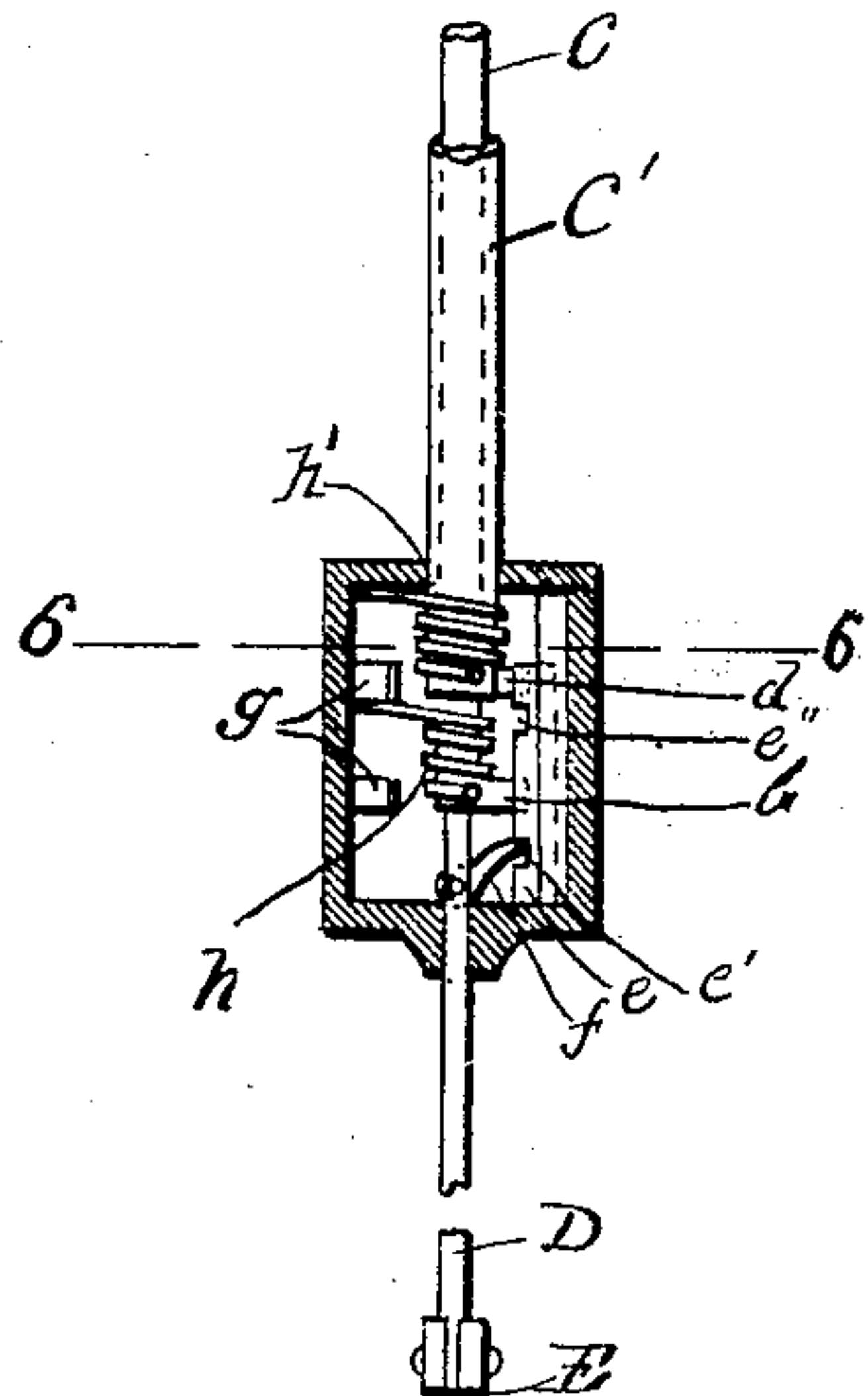


Fig 5

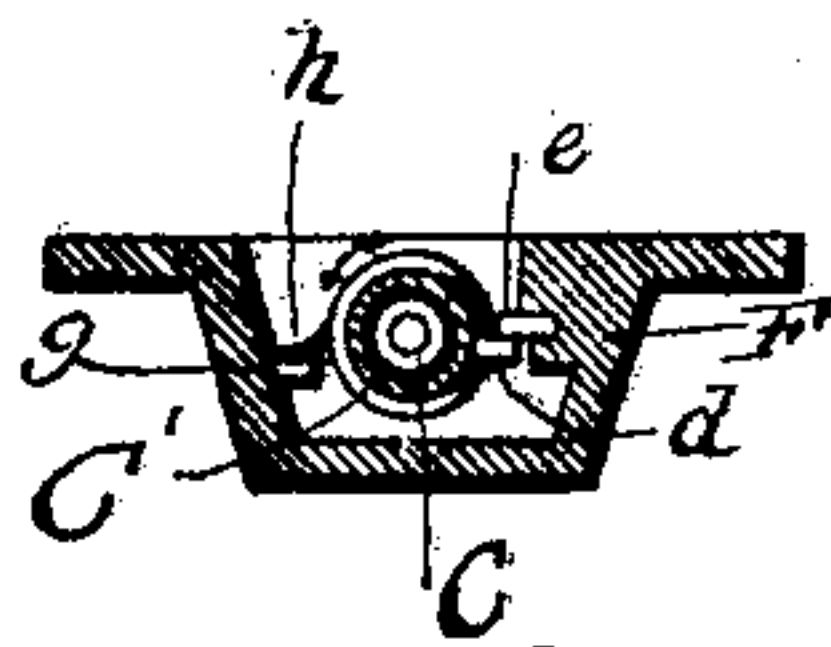


Fig 6.

WITNESSES

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MUSIC-LEAF TURNER.

No. 919,367.

Specification of Letters Patent.

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Application filed June 17, 1908. Serial No. 422,935.

To all whom it may concern:

Be it known that I, THOMAS H. LEVING, a citizen of the United States, residing at New York, county of New York, and State of New York, have invented a certain new and useful Improvement in Music-Leaf Turners, of which the following is a specification.

My invention relates to a new and useful improvement in music leaf turners, and has for its object to provide a device of this description which will be exceedingly simple in construction, consists of few parts and will be very durable and efficient in action, and may be manufactured at a comparatively small cost.

With these ends in view this invention consists in the details of construction and combination of elements set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same I will describe its construction in detail referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1, is front elevation of the device, Fig. 2, an edge view of the same, Fig. 3, a rear elevation, Fig. 4, a section taken on the line 4—4 of Fig. 3, Fig. 5, an enlarged elevation from the rear of the actuating mechanism with the casing shown in section; Fig. 6, a section on the line 6—6 of Fig. 5.

A represents the board or plate against which the music is adapted to rest, as shown in dotted lines at *a* in Fig. 1.

B and B' are the arms having downwardly turned ends adapted to extend behind the leaves to be turned.

C is a tube extending vertically down the rear of the board A, and connected to the upper end of this tube through an opening formed through the board is one end of the arm B.

C' is a tube surrounding the tube C, and connected to the upper end of this tube is the arm B'.

D is a rod extending upward through the tube C and adapted to slide vertically through said tube, the lower end of said rod is connected to the rearward end of the lever E which extends forward through the board A and is pivoted to said board intermediate of its two ends. The forward end of the lever E contains a button which may be pressed downward by the finger to turn one sheet of music.

F is a casing secured to the rear of the board A, and the tubes C and C' extend into said casing from above.

h and *h'* are springs coiled about the lower ends of the tubes C and C' respectively, one end of each of said springs secured to the casing F and the other end to the tubes, and said springs tend to always revolve the tubes in such a direction that the arms will turn the pages of the music toward the left.

e is a slide adapted to slide vertically in suitable guideways provided upon the interior of the casing F. The edge of this slide *e* is provided with two notches *e'* and *e''*.

The tubes C and C' are provided upon their lower ends with lugs *b* and *d* respectively, these lugs normally bear against the slide *e* and hold the arms B and B' to the right against the tension of the springs *h* and *h'*.

f is a pawl pivoted to the rod D and adapted to engage the notch *e'* of the slide, and when the lever E is depressed and the rod D raised the pawl *f* will also raise the slide *e*, and the notches *e'* and *e''* are so arranged in the slide *e* that the notch *e''* will be brought into register with the lug *d* upon the tube C' so as to allow the spring *h'* to act to revolve the tube C' and move the arm B' to the left, then when the pressure is removed from the button the rod D will descend by gravity, carrying the pawl with it, then when another sheet of music is desired to be turned the button is again pressed and the rod D is again raised, the pawl this time engaging the lower end of the slide *e*, then the notch *e'* will come into register with the lug *b* upon the tube C, and the arm B will be actuated by the spring *h*. *g* are stops for limiting the movements of the tubes C and C'.

When it is desired to reset the arms B and B' it is only necessary to move the arms to the right, one at a time and bring the notches into register with their respective lugs, and then by lowering the slide *e* the tubes are held against revolution.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is.—

1. In a music leaf turner, a board provided with a ledge upon which the music is adapted to rest, a rod extending vertically at the back of the board and slidably supported upon said board, a lever for moving said rod verti-

cally, a tube journaled upon the rod, an arm connected to the upper end of the tube and extending through to the forward side of the board, a second tube journaled upon the first named tube, an arm connected to the upper end of this tube and extending forward to the front of the board, downwardly turned ends formed with said arms adapted to extend between the leaves of the music, springs tending to revolve the tubes in such a direction as to cause the arms to turn the leaves of music, means for normally holding the tubes against revolution, means for releasing said tubes one at a time by raising the rod, as and for the purpose set forth.

2. In a music leaf turner, a board against which the music is adapted to rest, a rod slidably mounted at the back of the board and extending vertically in the center thereof, a lever extending through the forward face of the board for moving said rod vertically, a tube journaled upon the rod, a tube journaled upon the first named tube, two arms, one connected to the upper end of each tube and extending forward to the front of the board, downwardly turned fingers formed upon the outer ends of the arms adapted to extend between the leaves of the music, a casing secured to the rear of the board into which the lower ends of the tubes extend, a spring coiled about the lower end of each tube, one end of each spring connected to the casing and the other end to their respective tubes, said springs tending to revolve the tubes in the proper direction to turn the music, lugs extending outward from the tubes, a vertical slide arranged within the casing against which the lugs normally abut, said slide provided with notches so arranged that when the slide is lifted one notch will be brought into register with one of the lugs before the other notch is in register with the other lug, a pawl secured to the vertically sliding rod and adapted to engage the slide,

and stops for limiting the revolution of the tubes, as specified.

3. In a music leaf turner, the combination of suitably supported rotatable tubes, one of which turns in the other leaf turning arms carried by the tubes, tension means tending to turn the tubes, means for holding the tubes against revolution, and means for releasing said tubes successively from said holding means comprising a vertically guided rod, on which the inner of said tubes turns and a shifting device operated by said rod coöperating with said holding means.

4. In a music leaf turner, the combination of a plurality of leaf-turning arms, means for pivotally supporting each arm to turn separately from the other, fingers on said pivotal means, means for placing said pivotal means under tension, a notched slide, the notches of which are adapted to be registered with said fingers, and means for imparting a step by step movement to said slide to disengage said fingers.

5. In a music-leaf turner, the combination of a music support, a vertically movable operating rod suitably mounted on the support, a key-lever for acting on said rod to move it upwardly, a tube journaled upon the rod, a second tube journaled on the first tube, leaf-turning arms on the upper ends of both tubes, and provided with down turned leaf engaging portions, tension springs tending to revolve the tubes in such direction as to cause the arms to turn the leaves of music, means for normally holding the tubes against revolution, and means for releasing said tubes one at a time by raising the rod.

In testimony whereof, I have hereunto affixed my signature in the presence of two subscribing witnesses.

THOMAS H. LEVING.

Witnesses:

PHILIP ELTING,
JOHN P. SHATTUCK.