

(No Model.)

S. RATHBURN.
MUSIC LEAF TURNER.

No. 356,959.

Patented Feb. 1, 1887.

Fig. 2

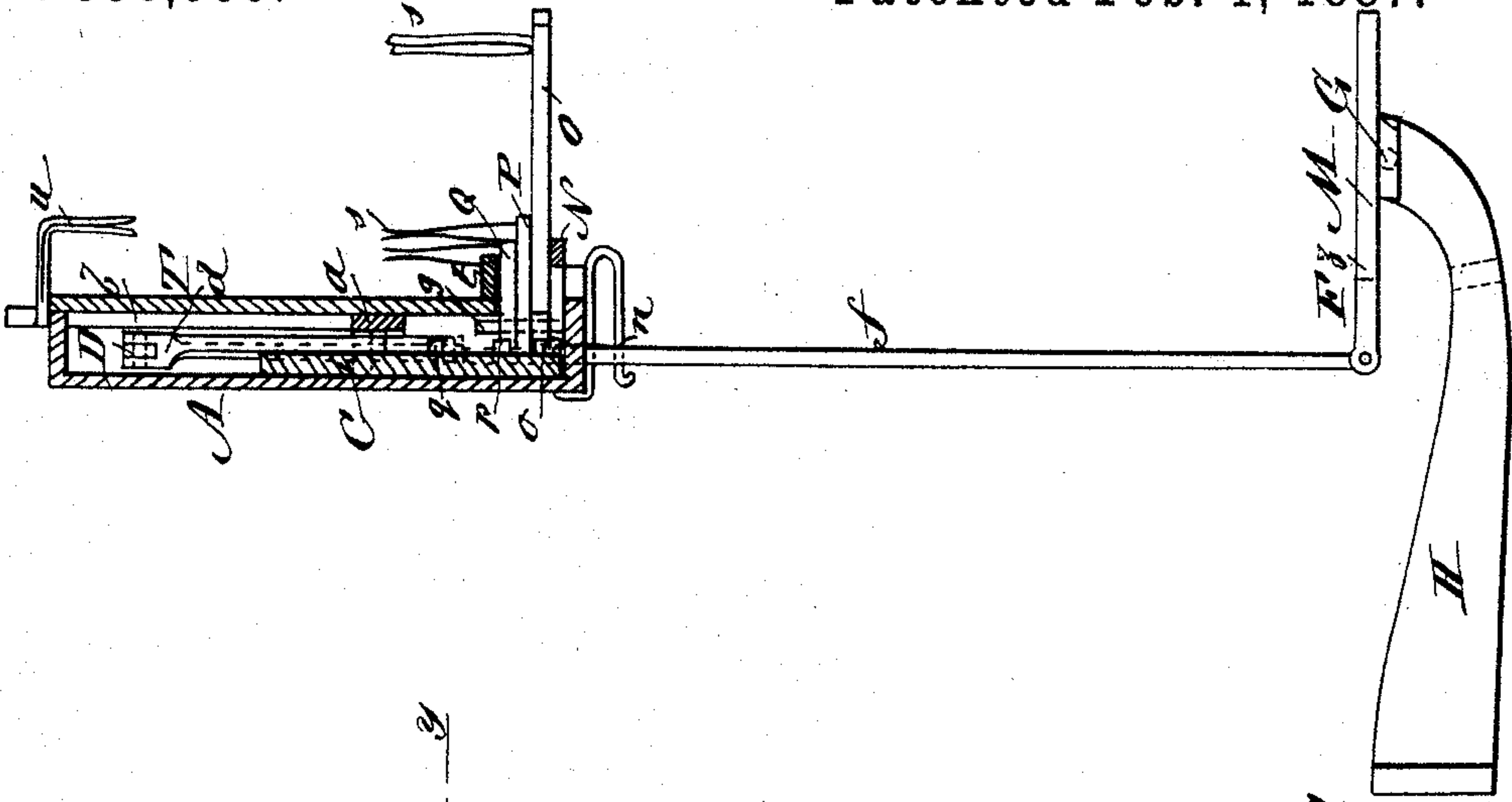


Fig. 1

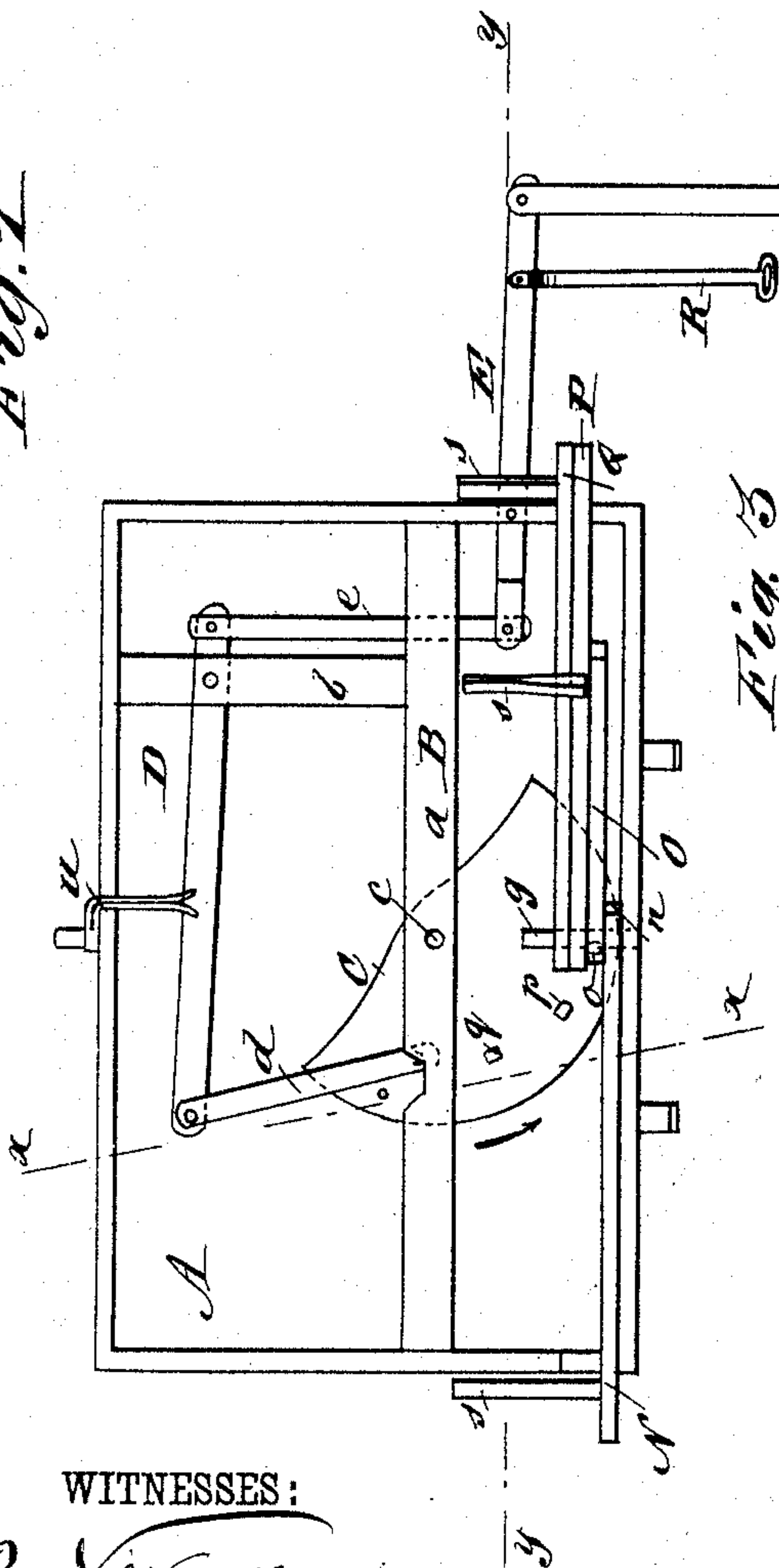


Fig. 3

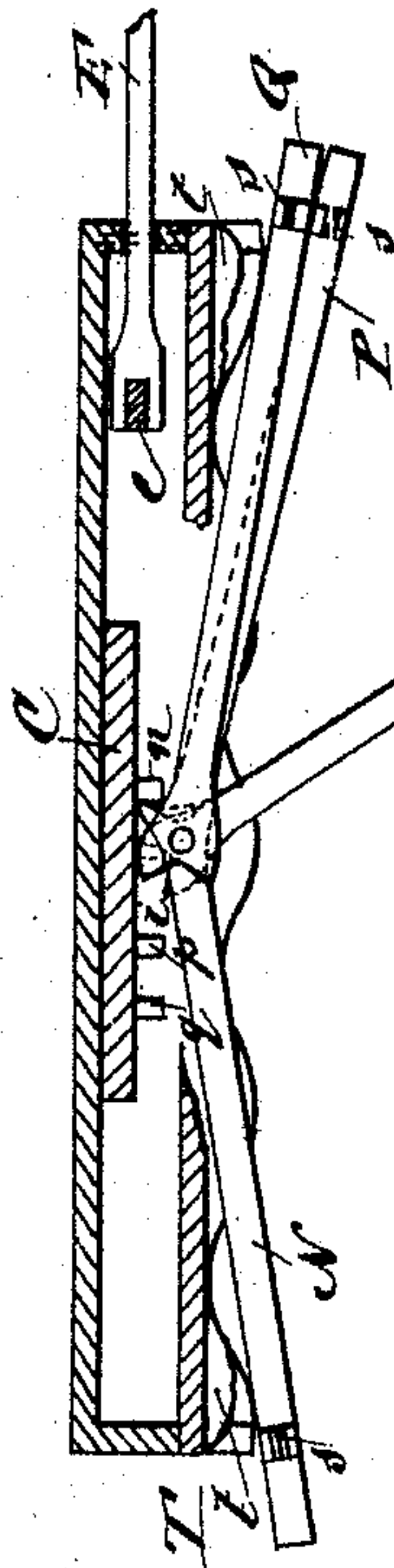
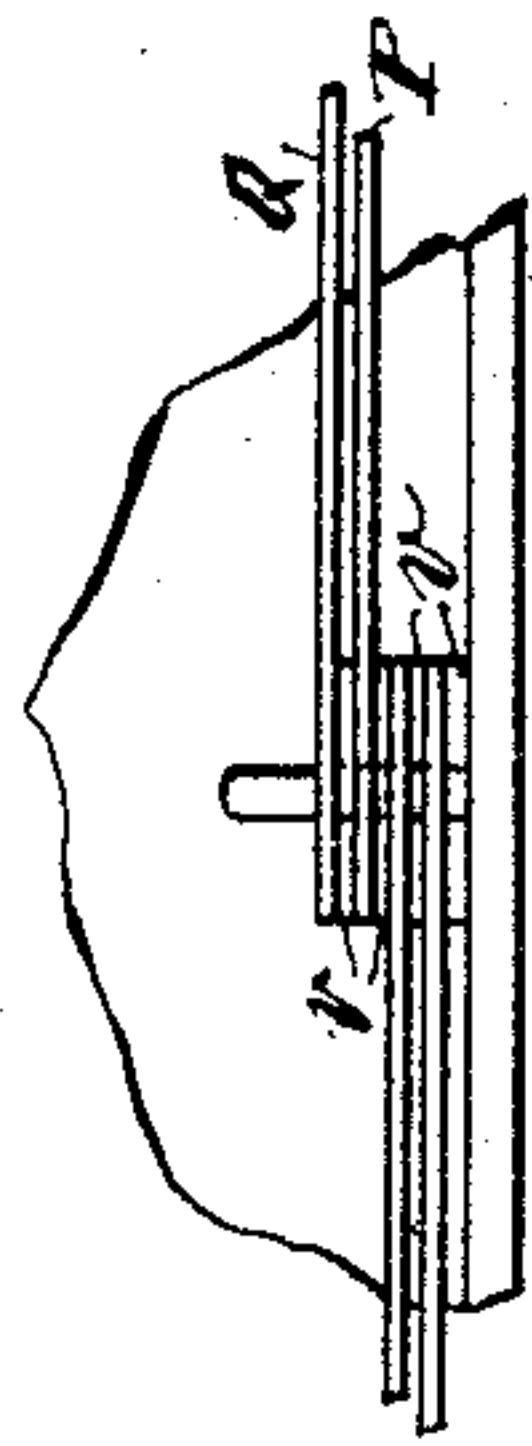


Fig. A



WITNESSES:

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MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 356,959, dated February 1, 1887.

Application filed January 2, 1886. Serial No. 187,494. (No model.)

To all whom it may concern:

Be it known that I, SETH RATHBURN, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Leaf-Turner, of which the following is a full, clear, and exact description.

The invention consists in the construction and arrangement of parts, as will be hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a face view of the apparatus, the cover of the case being removed to disclose the interior construction. Fig. 2 is a vertical sectional view taken on line *xx* of Fig. 1. Fig. 3 is a sectional plan view taken on line *yy* of Fig. 1, and Fig. 4 is a modified construction.

In constructing such an apparatus as is illustrated in the drawings above referred to I provide a case, A, in which there is arranged a frame-work, B, made up of the longitudinal strip *a* and the upright strip *b*. The disk C is pivotally mounted between the back of the case and the strip *a*, being arranged so that it may be given an oscillating motion upon its pivotal connection *c*. This motion of the disk C is imparted by means of the levers D, E, and F and the connecting-links *d*, *e*, and *f*, the lever D being pivotally mounted between the strip *b* and the back of the case, and the lever E, projecting through the side wall of the case, being pivotally connected thereto, while the lever F is fixed to the treadle-shaft G. The connecting-rod *d* reaches from the disk to the end of the long arm of the lever D, the rod *e* connects the short arm of the levers D and E, and the rod *f* connects the levers E and F.

The treadle-shaft G is mounted in bearings formed in the bracket H, arranged to be secured to the floor or side wall of the apartment, or to the instrument, in case the device is used upon a piano, and upon the opposite end of the shaft there is fixed a pedal, M.

Such being the general arrangement of the disk and connecting-levers, it will be seen that if the forward end, *z*, of the pedal M is depressed the disk will be carried forward in the direction of the arrow shown in Fig. 1.

Upon a vertical pin or standard, *g*, I mount a number of arms, N O P Q, formed with enlarged inner ends, that are provided with notches *i i*, the arms being mounted on the standard in the order named.

Upon the face of the disk C, I fix a number of stops or teeth, *n o p q*, so that as the disk is revolved about its axis each stop will enter the notch in the arm correspondingly lettered—that is, the stop *n* will enter the notch *i* of the arm N, the stop *o* the notch *i* of the arm O, and so on—and as each stop so enters the notch upon the corresponding arm the base of said arm will be carried forward by the movement of the disk and the arm will be moved across the face of the case. Upon the end of each arm there are spring-tongues *s s*.

The open face of the case is closed by a cover, T, provided with a shelf, *t*, arranged to support the weight of the volume or piece of music.

The apparatus constructed as described, when used as a music-leaf turner for a piano, is fixed to the face of the music-rack, the music being placed upon the shelf *t* and held from falling by an upper rotating clip, *u*. A separate leaf is placed between the spring-tongues *s*, carried by each of the arms N O P Q, so that as the performer advances he may turn each leaf without interfering with the performance of the composition. In certain cases it might be desirable to operate the device by hand, and to enable him to do so I provide the lever E with a hand-piece, R, which extends forward within reach, so that the lever E may be moved upward or downward by the hand as well as by the foot of the operator.

This leaf-turner is applicable for use upon organs as well as pianos, and in fact, may be used in connection with any form of instrument; and it will of course be understood that any number of the spring-tongue-carrying arms could be employed.

In the construction shown in Fig. 4 the arms are separated by strips *v v*.

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

1. In a leaf-turner, the combination, with a series of arms carrying spring-tongues and

provided with notches *i*, of a vertical pivoted disk, C, having forwardly-projecting pins on its front face for engaging said notches, and an actuating mechanism, substantially as described. 5

2. In a leaf-turning apparatus, the combination, with a series of arms carrying spring-tongues and formed with notches *i*, of a disk, C, carrying stops arranged to engage with the 10 notches of said arms, levers D and E, and connecting-rods *d* and *e*, substantially as described.

3. In a leaf-turning apparatus, the combination, with a series of arms carrying spring-tongues and formed with notches *i*, of a disk 15 carrying stops arranged to engage successively with the notches *i* of the levers D, E, and F, connecting-rods *d*, *e*, and *f*, shaft G, and pedal M, substantially as described.

SETH RATHBURN.

Witnesses:

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