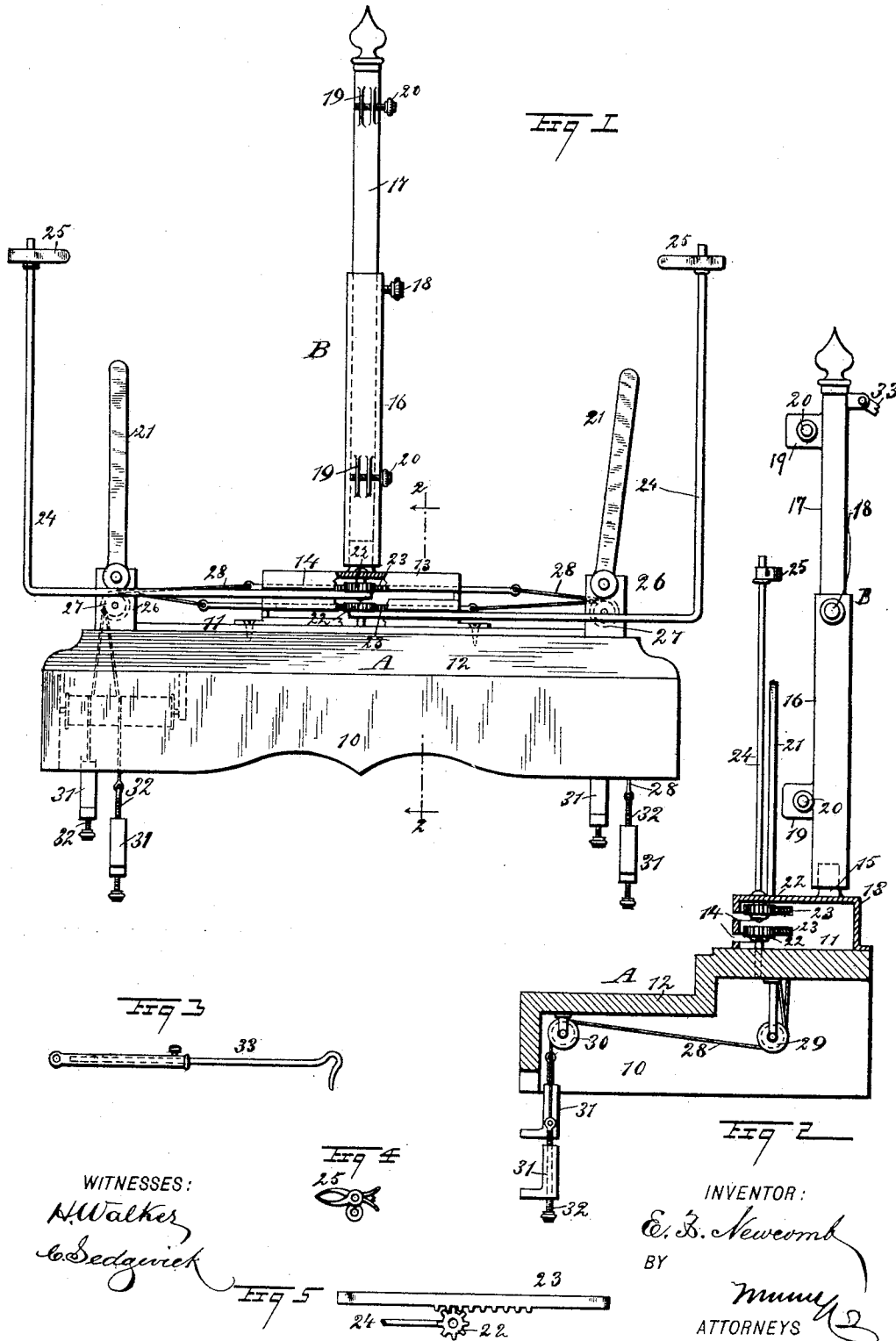


(No Model.)

E. B. NEWCOMB.  
MUSIC LEAF TURNER.

No. 463,913.

Patented Nov. 24, 1891.



# UNITED STATES PATENT OFFICE.

EVANDER B. NEWCOMB, OF PARSONS, KANSAS, ASSIGNOR TO ELI K. SMITH,  
OF SAME PLACE.

## MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 463,913, dated November 24, 1891.

Application filed May 5, 1891. Serial No. 391,618. (No model.)

*To all whom it may concern:*

Be it known that I, EVANDER B. NEWCOMB, of Parsons, in the county of Labette and State of Kansas, have invented a new and Improved Music-Leaf Turner, of which the following is a full, clear, and exact description.

My invention relates to an improvement in music-leaf turners, and has for its object to provide a device simple, durable, and ornamental and capable of expeditious attachment to or detachment from the music-rack of the instrument; and a further object of the invention is to provide a music-leaf turner capable of being expeditiously and conveniently manipulated.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

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

Figure 1 is a front elevation of the device, partly in section. Fig. 2 is a vertical section on the line 2 2 of Fig. 1. Fig. 3 is a detail view of the hook adapted to secure the device to the music-rack. Fig. 4 is a plan view of one of the spring-clips employed in connection with the leaf-turning arm, and Fig. 5 is a detail view illustrating the manner in which the leaf-turning arms are actuated.

The base A of the device is somewhat rectangular in general contour and is provided with a downwardly-extending marginal flange 10, preferably omitted at the rear edge, which flange may be of any suitable or approved formation. The upper face of the base is preferably constructed in two steps 11 and 12; but such formation is not absolutely necessary. Upon the center of the upper step 11 of the base a casing 13 is erected, which casing is provided with a number of slots 14 in its front face, corresponding to the number of music-turning arms employed in the device. Upon the casing 13 the lower end of a post B is attached, preferably in a removable manner, and this is usually effected by causing the lower end of the post to fit over

and upon a stud 15, formed upon the casing, as is best shown in Fig. 2.

The post B is constructed in any desired number of telescopic sections, two sections 16 and 17 comprising the post illustrated, the upper section being held within the lower or base section by means of a set-screw 18 or the equivalent thereof. Each of the sections of the post is provided upon its front face with spaced ears 19, preferably of spring metal, which ears may be drawn together or forced apart through the medium of adjusting-screws 20, passed through them. The ears 19 serve as clamps, being adapted to receive between them the back of a book or the sheet of music the leaves of which are to be turned, and the leaves of the book or sheet of music that are not to be manipulated are held closed by fingers 21, one of which is pivoted upon the base at each side of the post.

Within the casing 13 a number of pinions 22 are independently pivoted, and each pinion engages with an independent rack 23. Each pinion has secured thereto in any suitable or approved manner the inner end of the horizontal member of a leaf-turning arm 24, the said leaf-turning arm being preferably L-shaped, or practically so, and the vertical member of each leaf-turning arm at or near its upper end is provided with attached spring-actuated jaws 25 of any suitable or approved construction, one construction of such jaws being illustrated in Fig. 4. The object of the spring-jaws is to clamp and hold a sheet or page to be turned.

The fingers 21 are usually pivoted upon casings 26, and within each casing 26 one or more friction-rollers 27 are journaled. Each end of each rack 23 has attached thereto a cord 28, and the cords pass over the friction-rollers or pulleys 27 downward through the base and over friction-rollers 29 and 30, located one near the rear and the other near the front of the base, as shown in Fig. 2, and a pair of such rollers is preferably located at each end of the base.

Finger keys or blocks 31 are attached to the ends of the cords 28, and this attachment is effected by attaching to the said cords screws 32. The blocks 31, which are prefer-

ably made essentially L-shaped, as shown in Fig. 2, are provided in their vertical members with threaded apertures, through which the screws pass. Thus the finger-blocks may be adjusted upon the screws 32, so that they will be near the key-board or elevated some distance therefrom. When the device is placed upon the horizontal portion of a music-rack, it is connected with the vertical portion thereof, preferably through the medium of a hook 33, which is pivotally attached to the upper section of the post B.

In operation, the back of the book or sheet of music having been clamped between the ears 19, the pages to be turned are engaged with the arms 24 through the medium of their attached jaws 25, and the pages or leaves that are not to be used are held against the back of the book or sheet of music by the fingers 21. When a leaf is to be turned in the direction of the left, the right-hand finger-block connected with the arm attached to that leaf is pressed downward, and the arm is thereby carried over to the left and the leaf or page of music is carried with the arm. If the sheet of music is to be turned back, the block upon the left-hand side connected with the arm carrying the sheet is pressed, which, actuating the rack 23 in a direction opposite to its former movement, throws the arm over from the right to the left. The slots 14 are produced in the forward face of the casing 13 in order to permit a free passage of the arms 24 from right to left.

It will be noticed that the post B may be readily removed from engagement with the base, and the entire device is thereby rendered very compact when not in use.

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

1. In a music-leaf turner, the combination, with a base, of pinions independently journaled upon the base, independent racks engaging with said pinions, leaf-turning arms secured to the pinions, and cords attached to the racks and extending therefrom in opposite directions, as and for the purpose specified.

2. In a music-leaf turner, the combination, with a base provided with attached friction-rollers, a casing secured to the base, and pinions independently journaled in said casing, of independent racks engaging with the pinions, arms provided with attached catches and secured to the pinions, hand-blocks located beneath the casing, and cords attached to the hand-blocks, passed over the friction-rollers of the base, and connected with the

ends of the racks, as and for the purpose specified.

3. In a music-leaf turner, the combination, with a base, a casing erected upon the base, a post secured to the casing, and spring-clips attached to said post, of pinions journaled independently in the casing, independent racks engaging with the pinions, leaf-turning arms secured to the pinions, finger-blocks, and flexible connections between the finger-blocks and the extremities of the racks, as and for the purpose set forth.

4. In a music-leaf turner, the combination, with a base, a casing mounted upon the base and provided with a series of openings, a telescopic post removably attached to the base, and spring-clips attached to the sections of the post, of pinions journaled independently in the casing, a rack engaging each pinion, an essentially-L-shaped leaf-turning arm secured to each pinion, adjustable finger-blocks, and a flexible connection between the said blocks and the extremities of the racks, as and for the purpose set forth.

5. In a music-leaf turner, the combination, with a base, a casing mounted upon the base and provided with a series of openings, a telescopic post removably attached to the base, and spring-clips attached to the sections of the post, of pinions journaled independently in the casing, a rack engaging each pinion, an essentially-L-shaped leaf-turning arm secured to each pinion, adjustable finger-blocks, a flexible connection between the said blocks and the extremities of the racks, and arms pivoted upon the base, one at each side of the post, and adapted for engagement with the leaves or pages to be held stationary, as and for the purpose specified.

6. In a music-leaf turner, the combination, with arms adapted for engagement with the leaves or pages to be turned and capable of a lateral movement, of actuating mechanism connected with said arms, and finger-blocks connected with said mechanism, the said finger-blocks being adjustable to and from the mechanism, as and for the purpose specified.

7. In a music-leaf turner, the combination, with the leaf-turning arm and the actuating mechanism for said arm, of a flexible cord connected with the actuating mechanism, a screw secured to the cord, and a finger-block adjustable upon the screw, as and for the purpose specified.

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Witnesses:

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