

(No Model.)

2 Sheets—Sheet 1.

O. W. NEWCOMB.
MUSIC LEAF TURNER.

No. 499,680.

Patented June 13, 1893.

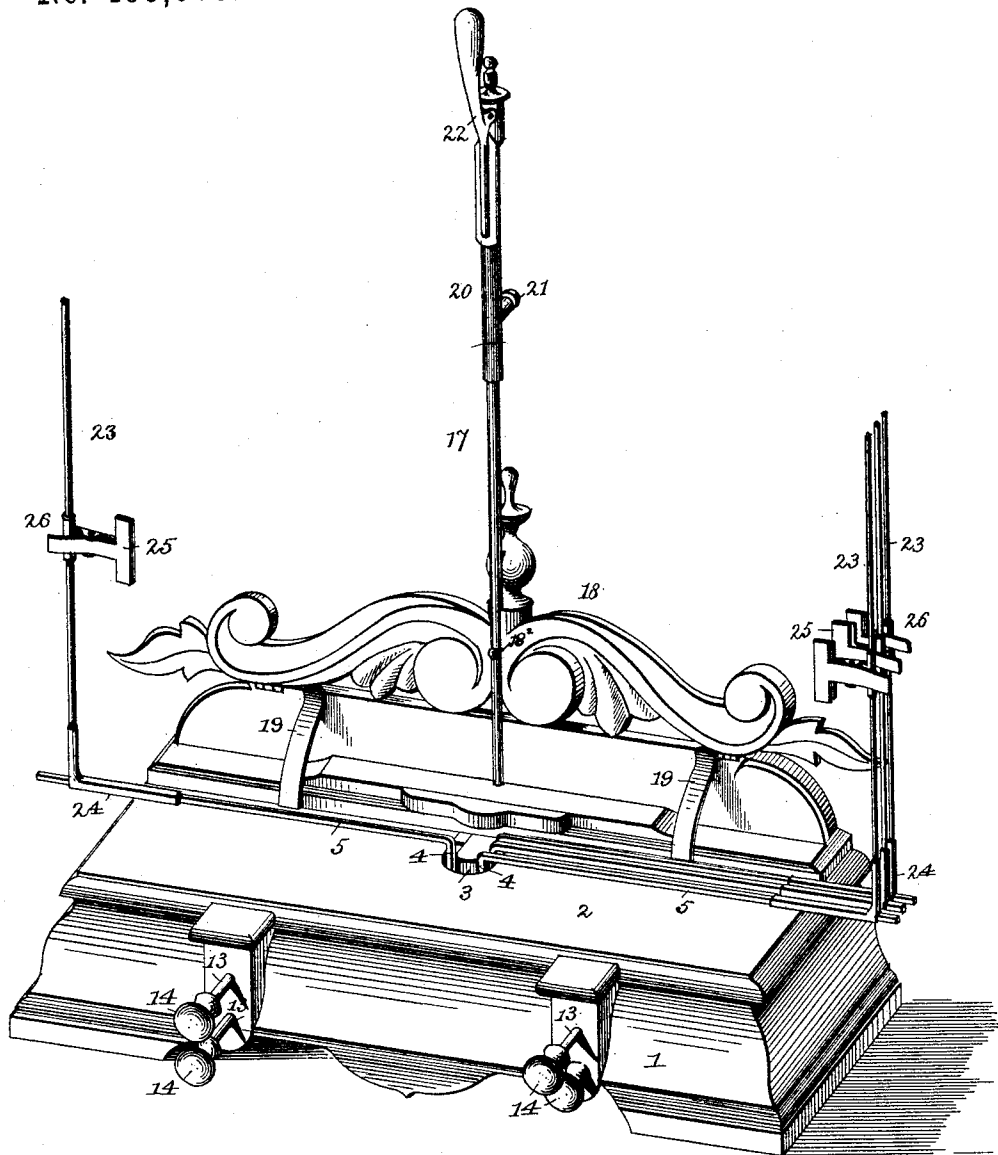


Fig. 1.

Witnesses

Chas. H. Ourand
N. P. Riley

Inventor

Obadiah W. Newcomb
By his Attorneys,

C. A. Snow & Co.

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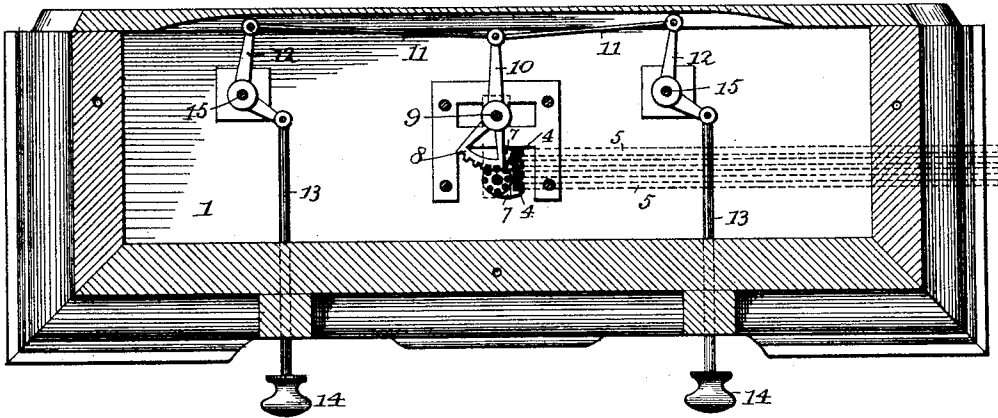


Fig. 2.

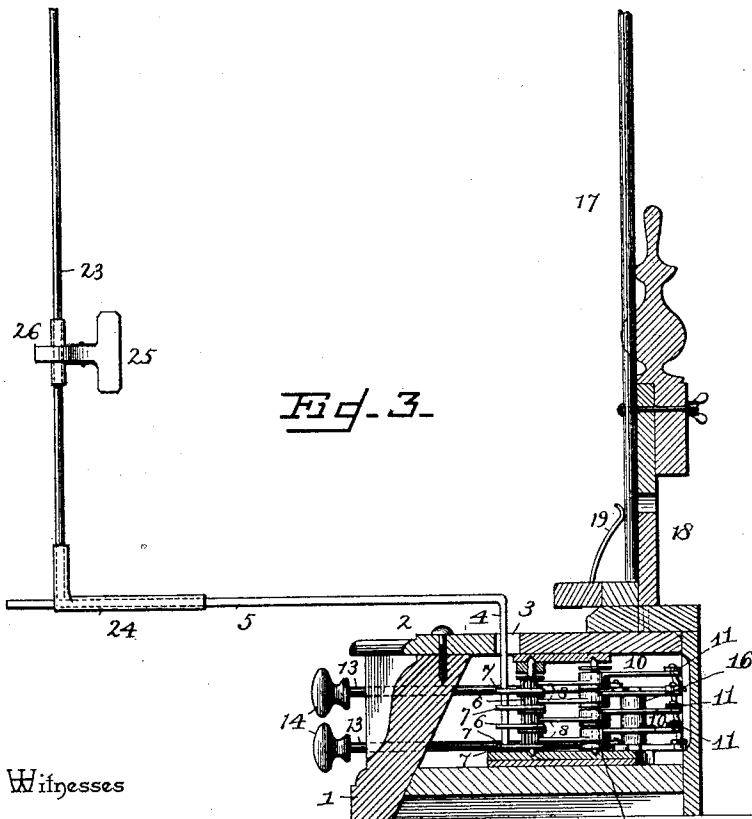


Fig. 3.

Witnesses

Charles Grand
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By his Attorneys,

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UNITED STATES PATENT OFFICE.

OBADIAH W. NEWCOMB, OF WELDA, KANSAS.

MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 499,680, dated June 13, 1893.

Application filed August 10, 1892. Serial No. 442,689. (No model.)

To all whom it may concern:

Be it known that I, OBADIAH W. NEWCOMB, a citizen of the United States, residing at Welda, in the county of Anderson and State of Kansas, have invented a new and useful Music-Leaf Turner, of which the following is a specification.

The invention relates to improvements in music leaf turners.

The objects of the present invention are to simplify and improve the construction of music leaf turners, and to enable the same to be readily applied to musical instruments without disfiguring the same, and to enable them to be operated in a manner similar to ordinary organ stops.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claim hereto appended.

In the drawings—Figure 1 is a perspective view of a music leaf turner embodying the invention. Fig. 2 is a horizontal sectional view. Fig. 3 is a vertical sectional view.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a casing which may form a portion of the casing of the musical instrument or which may as illustrated in the accompanying drawings be constructed separate, and is then especially adapted for use in bands, orchestras and the like. The casing is provided in its top 2 near the center, with a curved slot 3 in which move downwardly extending portions 4 of leaf carrying arms 5, whereby the latter are adapted to swing from one side of the casing to the other to turn the leaves of a piece or book of music. Each leaf carrying arm has its vertical portion 4 secured to and carried by a pinion 6 which is mounted on a spindle, and which is provided with an outwardly extending arm 7 to provide means for connecting the vertical portion 4 to the pinion. The pinion is operated by a toothed sector 8 which is horizontally disposed, mounted on a vertical spindle 9, and provided with a rearward extending arm 10 disposed diametrically opposite the sector. The sector arm is connected by a rod 11 with one arm of

a bell-crank lever 12, which is mounted on a vertical spindle and which is arranged in a horizontal position, and the other arm of the bell-crank lever is connected with a horizontally disposed push rod 13 which is provided at its outer end with a knob or button 14, whereby by pushing the knob 14 inward, the leaf turning arm is operated, the operation being similar to the ordinary organ stops. All of the leaf turning arms are operated alike; the pinions and the sectors are arranged in vertical series, and the vertical pivots 15 of the bell-crank levers are arranged on opposite sides of the sectors, and the push rods are arranged at each side of the casing; but, it will be readily understood that by varying the lengths of the connecting rods 11 the bell-crank levers and push rods may be arranged at any point along the casing, except directly in front of the pinions, whereby any number and arrangement of push rods and leaf turning arms may be employed, and I desire it to be understood that I do not limit myself to the precise details of construction herein shown and described, as I may without departing from the spirit of the invention make various minor changes herein. The bell-crank levers are retained at the desired elevation on the pivots by sleeves 16, and the connecting rods extend from the rearwardly extending arms of the bell-crank levers to their respective sector arms, so that the leaf turning arms may be operated successively. The leaf turning arms are arranged in the same horizontal plane, whereby after all of the arms have been operated they may be returned to their normal positions by pulling out the push rod which operates the first leaf turning arm. By this arrangement, the leaves of the piece of music may be readily controlled as one or more arms may be turned in either direction by a single push or pull of a knob.

In the accompanying drawings, the casing and the leaf turning arms and the music supporting rod 17 are adapted to fold for compactness so that the music leaf turner may be readily carried, but, when the device is designed for stationary musical instruments, such as pianos, organs and the like, the construction whereby the parts are folded may be omitted. The back or rack 18 of the cas-

ing is hinged at its lower edge, and is adapted to fold downward upon the top of the casing, and it is provided with springs 19 which are arranged near the ends of the rack and are adapted to hold the back of a music book or the first and last leaves of a piece of music, or other leaves which need not be turned. The music supporting rod 17 is pivoted near its lower end at 18°, and is adapted to be turned longitudinally of the rack, and is provided at its upper end with a vertically adjustable sleeve 20, which is secured in its adjustment by a set screw 21. The sleeve is provided with a spring clamp 22 adapted to engage the top of a book or piece of music, and the sleeve is adapted to be adjusted to suit the size of the book or music to be held. The leaf turning arms are constructed of any suitable metal, and are squared and carry vertical leaf supporting rods 23 which are removably and adjustably mounted on the arms by L-shaped sleeves 24, which are rectangular in cross-section to fit the arms 5, and are adapted to be shifted along the same. The rods 23 are squared, and are provided with vertically adjustable spring clips or clamps 25 which are provided with sleeves 26, and which are adapted to receive and hold the edges of leaves of music. The leaf supporting rods may when the parts are folded be removed from the arms

until the parts are again set up, or be removed and turned into a horizontal position, and replaced on the arm, the rectangular sleeves and the squared arms permitting such an arrangement.

What I claim is—

In a music leaf turner, the combination of a casing provided in its top with a U-shaped slot, the vertical series of pinions provided with short horizontal arms, the L-shaped leaf turning arms having short vertical portions secured to the pinion arms and arranged in said slot, the horizontal portions of the leaf turning arms being arranged above the top of the casing, the vertical series of sectors meshing with the pinions, push bars connected with the sectors, L-shaped sleeves mounted on the leaf turning arms and adapted to be moved longitudinally of the same, and the vertical rods stepped in the L-shaped sleeves and provided with clamps, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

OBADIAH W. NEWCOMB.

Witnesses:

S. T. HIATT,
D. S. MOORE.