B. C. ELLERSICK.

MUSIC LEAF TURNER.

APPLICATION FILED SEPT. 16, 1909.

1,013,284.

Patented Jan. 2, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

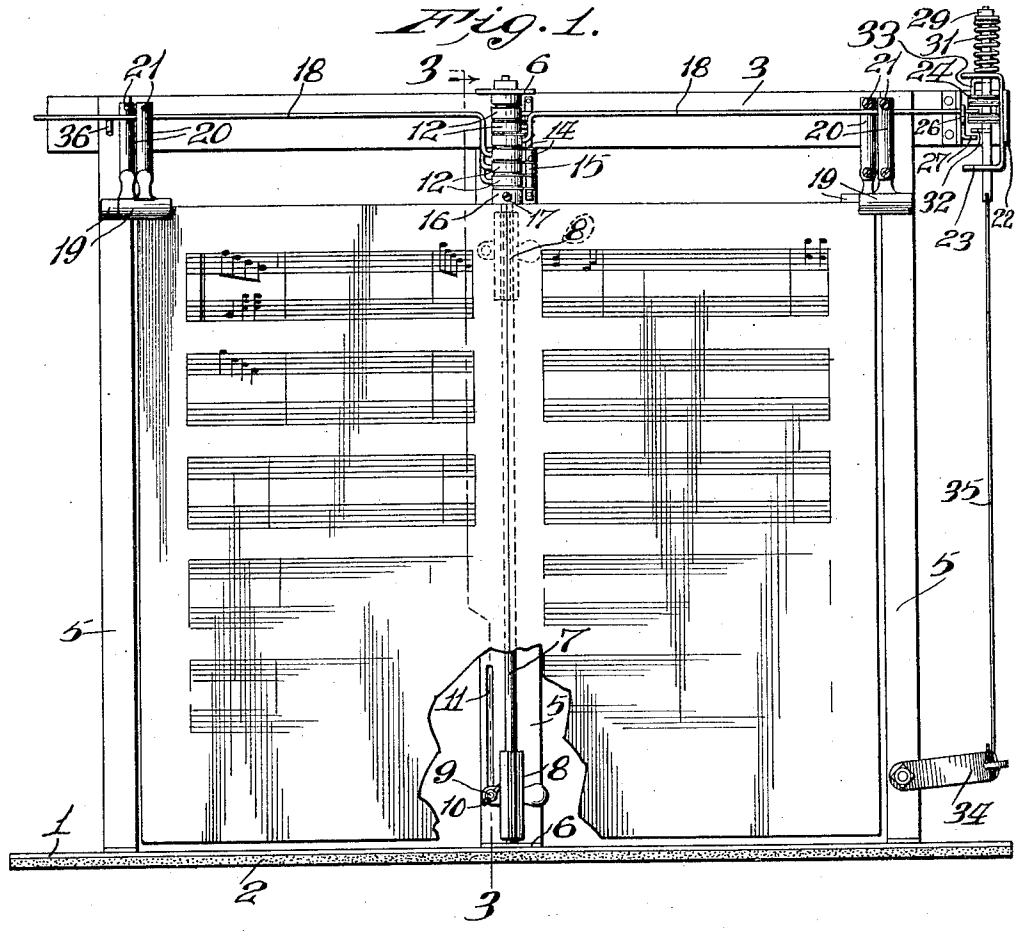
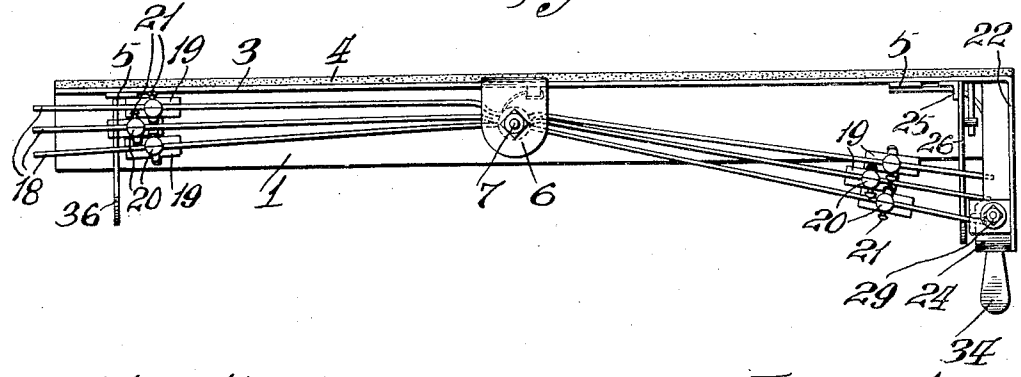


Fig. 2.



attest:
A. G. Fletcher.
E. L. Wallace.

Inventor:
Bernard C. Ellersick.
By Higdon & Morgan.
attys.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

B. C. ELLERSICK.

MUSIC LEAF TURNER.

APPLICATION FILED SEPT. 16, 1909.

1,013,284.

Patented Jan. 2, 1912.

2 SHEETS—SHEET 2.

Fig. 3.

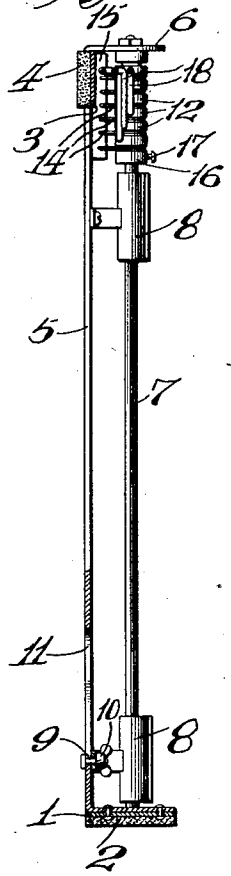


Fig. 5.

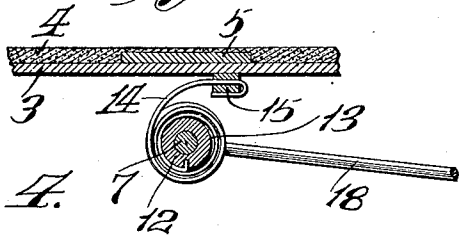


Fig. 4.

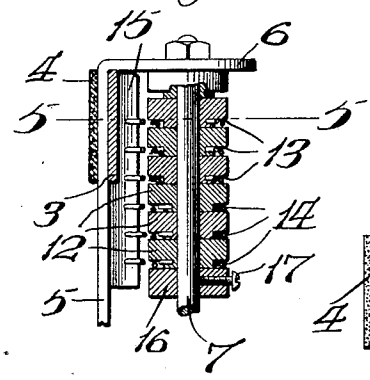


Fig. 6.

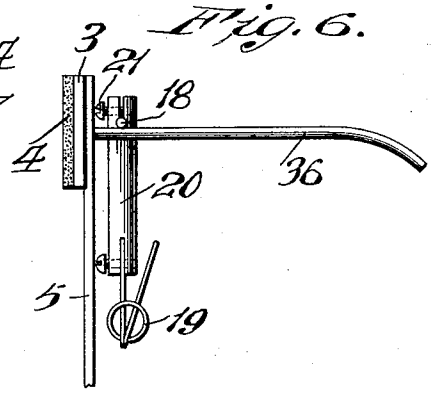


Fig. 7.

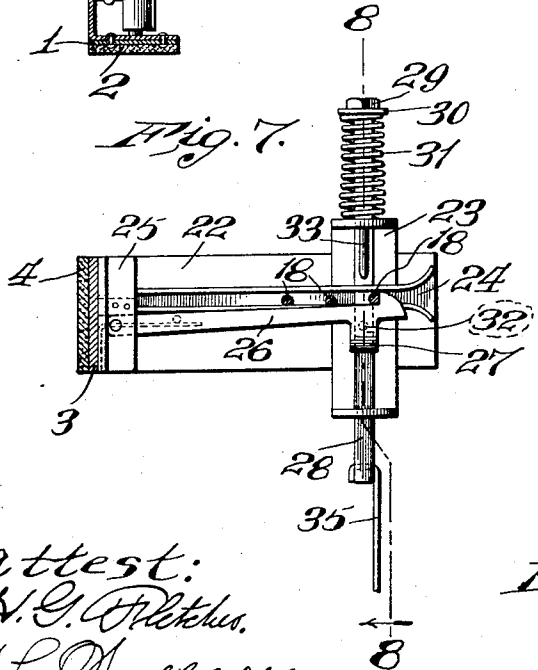
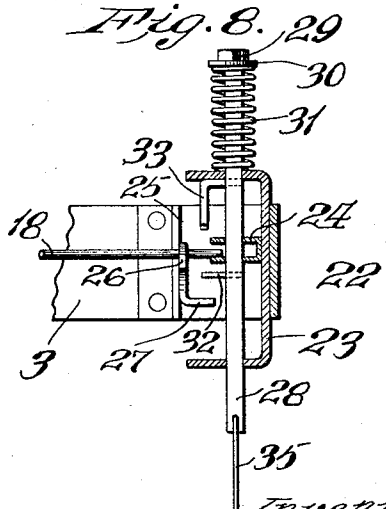


Fig. 8.



Attest:
A. G. Fletcher.
E. L. Wallace.

Inventor:
Bernard C. Ellersick.
By Higdon & Longan,
attys.

UNITED STATES PATENT OFFICE.

BERNARD C. ELLERSICK, OF ST. LOUIS, MISSOURI.

MUSIC-LEAF TURNER.

1,013,284. Specification of Letters Patent. Patented Jan. 2, 1912.

Application filed September 16, 1909. Serial No. 517,977.

To all whom it may concern:

Be it known that I, BERNARD C. ELLERSICK, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Music-Leaf Turners, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in music leaf turners, the object of my invention being to construct a music leaf turner which may be adjusted to receive sheets of music of various lengths and widths and to provide therefor a number of spring actuated clip-carrying arms with means for releasing one arm at a time to permit the arm to be swung by the spring from one side of the frame to the opposite side and carrying with it a sheet of music in the clip.

For the above purposes my invention consists in certain novel features of construction and arrangement of parts as will be hereinafter more fully described, pointed out in my claim and illustrated in the accompanying drawings: in which:

Figure 1 is an elevation of the complete music leaf turner with a sheet of music therein, a portion of which is broken away to illustrate the lowermost clip for holding music to the frame of the device; Fig. 2 is a plan of the complete music leaf turner; Fig. 3 is a vertical sectional elevation taken on the line 3—3 of Fig. 1, the sheets of music being removed therefrom; Fig. 4 is an enlarged detail sectional elevation showing the arrangement of the supporting ends of the arms for turning the sheets of music; Fig. 5 is a sectional plan taken on the line 5—5 of Fig. 4; Fig. 6 is an end view of a portion of the frame showing the means for supporting the leaf-turning arms at their outer ends after having turned the music sheet; Fig. 7 is an inside face view of the tripping device which permits the release of one arm only at a time; and, Fig. 8 is a vertical sectional elevation taken on the line 8—8 of Fig. 7.

Referring by numerals to the accompanying drawings: 1 designates the base of the device to the under face of which is applied a pad 2.

3 designates the upper portion of the frame of the device to the rear face of which is applied a pad 4.

Connecting the frame section 3 with the base 1 are the uprights 5, the outer two of which are bent at right angles at their lowermost ends, which bent ends are secured to the upper face of the base 1, and the opposite ends of the outer uprights are secured against the forward face of the frame section 3.

The middle upright 5 is provided with a right angle bend 6 at each of its ends, the bend at the lower end being secured to the base in the same manner as the two outer uprights and the opposite end of the middle upright is secured to the face of the frame section 3, its bent end occupying a position above the frame section 3 and projecting forwardly from the section 3.

Secured between the bent ends 6 of the middle upright is a rod 7 and carried by said rod is a pair of clips 8, and carried by the lowermost clip 8 is a bolt 9 carrying a winged nut 10.

Formed in the middle upright 5 is a slot 11 through which the bolt 9 is passed to provide altitudinal adjustment of the lowermost clip 8 as required for the accommodation of music leaves of various lengths.

Embracing the rod 7 adjacent its upper end is a plurality of collars 12 each of which is provided with a reduced portion 13, which reduced portion is embraced by a helical spring 14 the one end of which is secured within the depression 13 and its opposite end is secured to a perforated cleat 15, secured to the forward face of the middle upright 5.

To secure the collars 12 against altitudinal movement is a collar 16 which embraces the rod 7 immediately below the lowermost collar 12 and is secured to the rod 7 by means of a set screw or the like 17.

Each of the collars 12 carries an arm 18, the arm on the uppermost collar being straight and the inner ends of each of the remaining arms are bent outwardly thence upwardly so that all of the arms occupy approximately the same horizontal plane.

Carried by the arm 18 is a spring clip 19 and to provide means for adjusting the clip 19 longitudinally of the arm 18 is a hanger 20 which is bifurcated at its upper end to straddle the arm 18 and a set screw 21 is extended through said bifurcated end.

The right hand end 22 of the frame section 3 is bent forwardly at right angles to its body portion and secured to the outer

end of the bent portion 22 is a guide 23, and extending the full length of the bent end 22 on the inside face thereof is a channel bar 24 arranged to receive and support the free ends of the arms 18.

A bracket 25 is fixed to the forward face of the frame section 3 adjacent its right hand end and pivoted thereto is a spring actuated hook 26. Formed integral with the hook, adjacent its free end, is an outwardly and laterally extending projection 27.

Supported in the guide 23 is a rod 28, preferably angular in cross section, to prevent its turning. The upper end of the rod is threaded to receive a nut 29, which nut is arranged to secure to the rod a washer 30 and an extensible coil spring 31 impinging between the washer 30 and the guide 23.

Carried by the rod 28 is a pin 32 which normally occupies a position in a plane above the projection 27 of the hook 26. Carried by the rod 28 is a dog 33, a portion of which parallels the rod 28 and the free end of which normally occupies a position in a plane above the arms 18.

Pivoted to the right hand upright 5 is a lever 34 and connecting the lever and the lowermost end of the rod 28 is a rod 35.

Adjacent the upper left hand corner of the frame is an arm 36, the free end of which is bent downwardly to receive and support the arms 18 when released from the opposite or right hand side of the device.

In the operation of my improved music leaf turner, assuming that the device is in position on a piano or the like and a piece of music is secured in the clips 8 and that each of the individual leaves of the piece of music is held at its upper margin by one of the clips 19 and that all of the arms 18 are swung to the right hand end of the device, their ends occupying a position in the channel bar 24 and the hook 26 holding them against movement and against pressure of the springs 14, when it is desired to turn a leaf of the music, the lever 34 is depressed and by reason of the connection between the lever 34 and the rod 28, the pin 32 engages with the projection 27 and the hook is lowered permitting one of the arms to be swung outwardly away from the hook and be carried by its spring 14 to the opposite end of the device, and be received and supported by the arm 36

Simultaneously with the release of one of the arms 18, the dog 33 is moved downwardly in advance of the next succeeding arm and retains it during the time the hook 26 is lowered. By the time the dog 33 is raised by the pressure of the spring 31 to a position releasing the arm 18 the hook 26 is in a position to receive and retain said arm 18. In this manner each operation of the lever 34 lowers the hook 26 to permit the movement of an arm 18 and at the same time and by the same movement of the lever 34 the dog is brought to a position to prevent the movement of more than one arm 18 at a time.

I claim:

In a music leaf turner, the combination with a frame, a plurality of arms, which are spring actuated for movement in one direction, of devices at each end of the frame for supporting said arms, a spring actuated, pivoted hook arranged adjacent the right hand frame supporting device, a rod being spring actuated in one direction, a pair of projections carried by the rod, one projection being constructed and arranged to move said hook to release one of said arms at a time and the other projection constructed to pass in front of the remaining arms to prevent their turning, substantially as shown and for the purposes stated.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

BERNARD C. ELLERSICK.

Witnesses:
E. E. LONGAN,
E. L. WALLACE.