

Patented Feb. 25, 1913.

2 SHEETS—SHEET 1.

1,054,616.

Fig. 1.

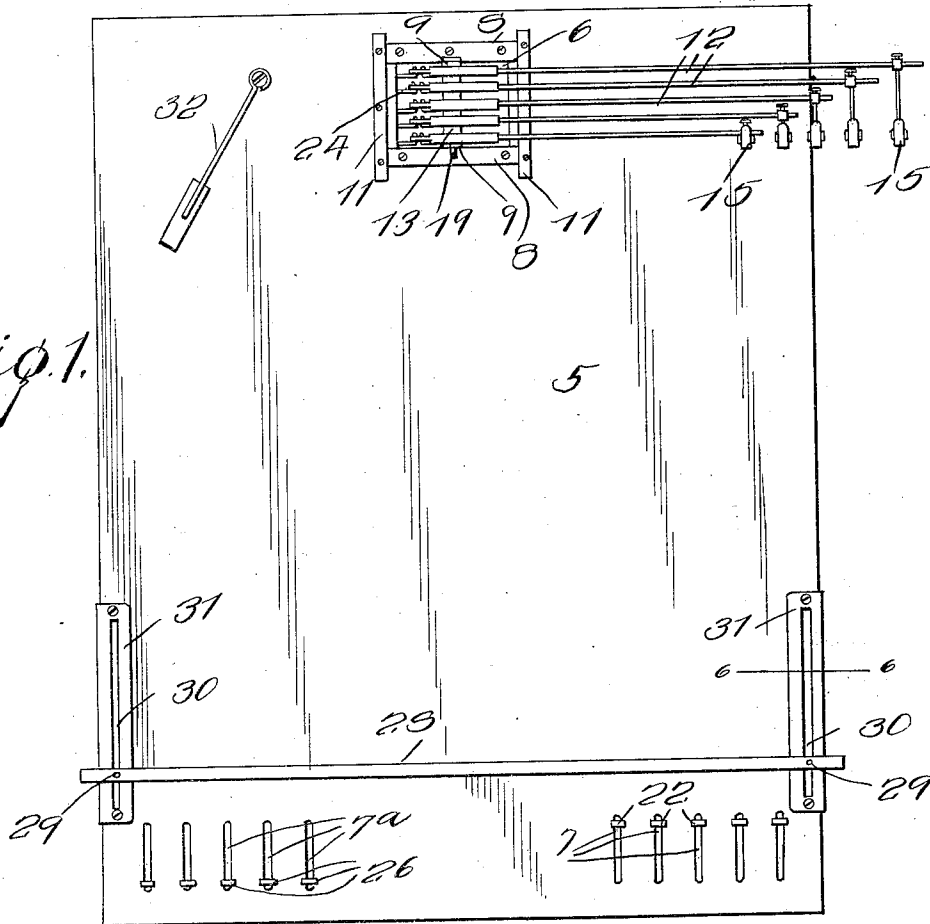
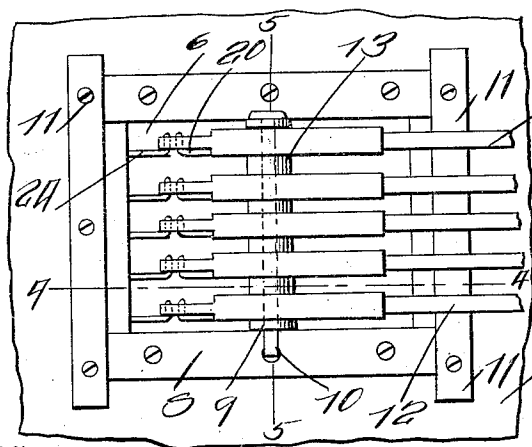
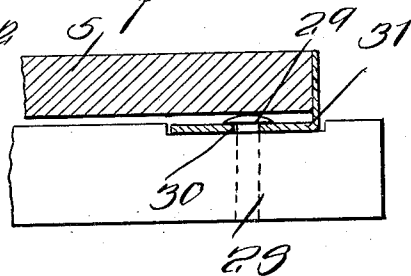


Fig. 6.



Witnesses

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Fig. 3.

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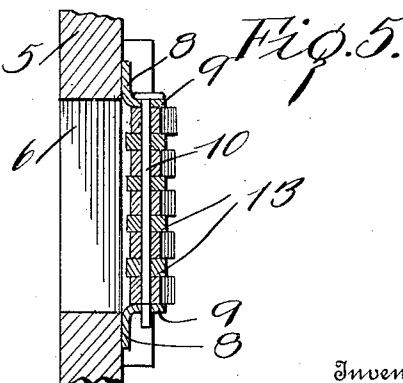
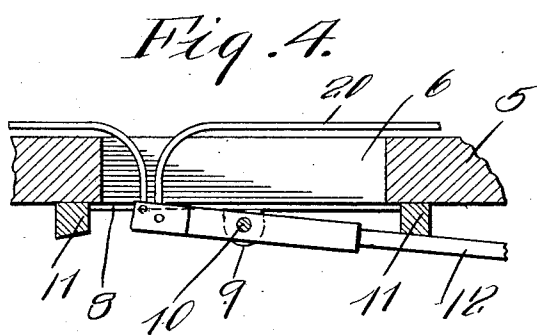
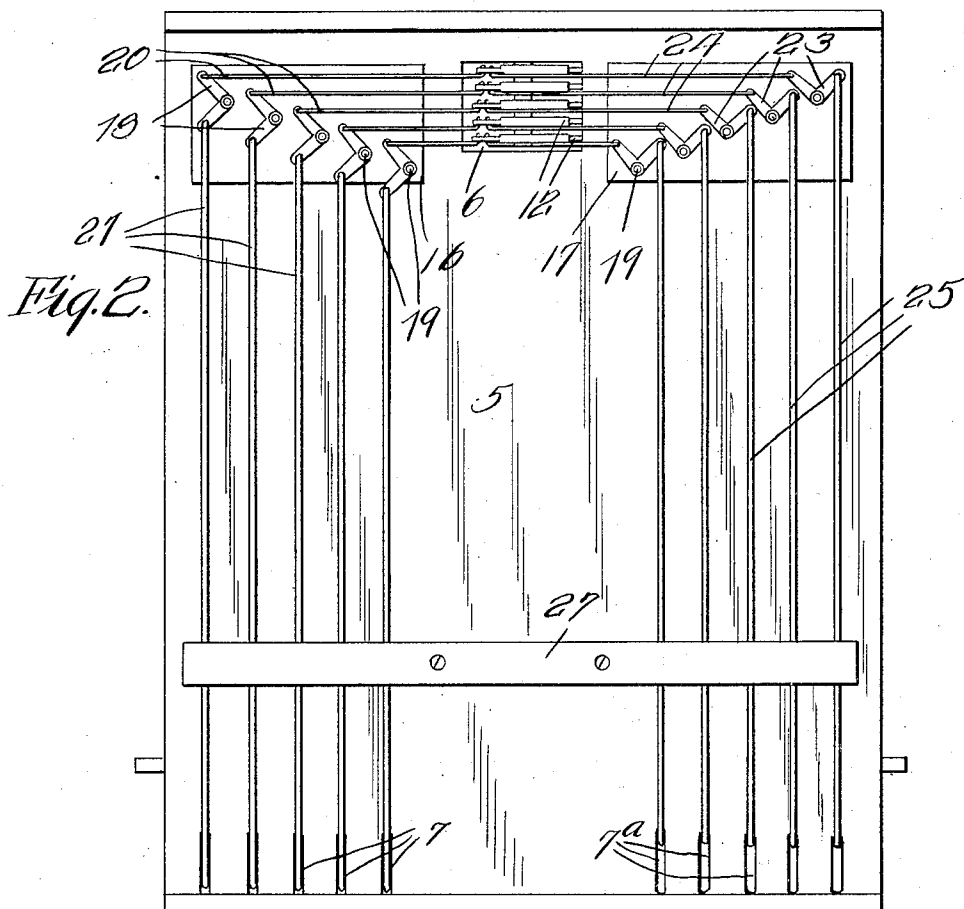
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MUSIC LEAF TURNER.
APPLICATION FILED APR. 25, 1912.

1,054,616.

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2 SHEETS—SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

NOLAND B. REES, JR., OF LINCOLN, KANSAS.

MUSIC-LEAF TURNER.

1,054,616.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed April 25, 1912. Serial No. 693,213.

To all whom it may concern:

Be it known that I, NOLAND B. REES, JR., a citizen of the United States, residing at Lincoln, in the county of Lincoln, State of Kansas, have invented certain new and useful Improvements in Music-Leaf Turners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in music leaf turners.

The principal object of the invention is to provide a music leaf turner which is adapted to be placed in position on a piano, organ, or other instrument, and by means of which the different sheets of a piece of music may be rapidly and easily turned.

Another object of the invention is to provide a music leaf turner for the purpose described by means of which either the sheets of music may be independently turned in progression or all of said sheets may be turned simultaneously.

A further object of the invention is to provide a music leaf turner which is capable of being adjusted to accommodate sheet music of different sizes.

A still further object of the invention is to provide a music leaf turner of the character described which is composed of a minimum number of parts, is therefore simple in construction, and is cheap to manufacture.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings: Figure 1 is a front elevation of a music leaf turner constructed in accordance with my invention, Fig. 2 is a similar view showing the rear face thereof, the parts being shown in their other positions, Fig. 3 is an enlarged front elevation showing the means employed for pivotally mounting the sheet engaging arms, Fig. 4 is an enlarged detail horizontal sectional

view taken on the line 4—4 of Fig. 3, Fig. 5 is a vertical sectional view taken on the line 5—5 of Fig. 3, and Fig. 6 is an enlarged detail sectional view showing the means for adjustably connecting the supporting bar to the back board.

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

Referring to the drawings, 5 designates a back board of any suitable construction. This board is centrally formed at its top portion with a rectangular opening 6 and in its lower portion on opposite sides of the center with sets of vertical slots 7 and 7^a respectively. Secured to the board 5 on opposite sides of the opening 6 are metallic strips 8 and extending forwardly from the inner longitudinal edges are centrally disposed perforated ears 9—9, in which is journaled a pivot pin 10. Secured upon the front face of the board on opposite sides of the opening 6 are cleats 11—11 adapted for a purpose hereinafter more fully explained.

My invention further comprises a plurality of laterally swinging arms 12, there being preferably five of these arms, although a smaller or greater number may be employed if so desired. These arms are arranged one above the other and the lengths of these arms increase in progression from the bottom arm upwardly. These arms are fulcrumed adjacent their inner ends upon the pivot pin 10, and are disposed in spaced relation to each other by means of washers 13 or other suitable spacing means. Slidably mounted upon each arm is a leaf-engaging clip 15. By this arrangement music of various sizes may be readily accommodated.

Secured upon the rear face of the back board 5 and on either side of the opening 6 are plates 16 and 17 respectively. A plurality of spaced bell crank levers 18 are each fulcrumed, as at 19, upon the plate 16, there being in this instance five of these levers. In order to swing the arms 12 so as to turn the music, the inner end of each arm 12 is connected to one end of a flexible wire 20 or the like, and this wire has its other end connected to one arm of a respective lever 18. The other arms of the levers 18 are each connected to one end of a pull rod 21, the lower end of each pull rod being bent at right angles to form a finger-piece 22 which projects through one of the slots 7 on the

right hand side of the board. It will thus be observed that when it is desired to swing the leaves in progression, the finger-piece 22 on the left is first depressed, then the next and so on toward the right of the board. Upon downward movement of the pull rod, the lever 18 will be swung upon its pivot when the flexible wire 20 will cause the arm 12 to swing in a horizontal plane, and thereby turn the music. When it is desired to turn all of the music at once the finger-piece 22 on the extreme right will be depressed, and as a result, the arm 12 which engages the last sheet of music will be actuated. The swinging movement of this arm will carry with it the last sheet of music and as a result will cause the other sheets to travel therewith.

In order to return any of the sheets of music to their normal position, there is fulcrumed upon the plate 17 a plurality of bell crank levers 23, and connecting one arm of each lever with one end of a respective arm 12, is a flexible wire 24 or the like. Pull rods 25 are each connected at one end with one arm of a respective lever 23 and the lower ends of these rods are bent forwardly at right angles, and terminate in finger-pieces 26 which project through the slots 7^a on the left hand side of the board. It will thus be observed that when the arms 12 are in their normal positions, the finger-pieces 22 will be up and the finger pieces 26 will be down so that upon the depression of the first mentioned finger pieces in progression, the sheets of music may be turned in order. As the arms 12 thus swing, the pull rods 25 and consequently the finger pieces 26 thereof will be elevated, thus placing them in their proper operative positions ready to return the music.

In order to hold the pull rods 21 and 25 against the board 5 and yet permit of free movement there is provided a flat strip of metal 27 which is transversely secured to the back of the board by any suitable means, and has its free ends disposed over the pull rods, the free ends serving to hold the pull rods against the board and consequently preventing the finger pieces from working rearwardly through their respective slots.

In order to accommodate the board 5 to music of different sizes, there is adjustably mounted upon the front face of the board a transversely disposed supporting bar 28. This bar carries at its ends rearwardly projecting pins 29—29, the heads engaging within slots 30—30 respectively formed in plates 31—31 which are secured to the board 5 and extend longitudinally therealong. The heads frictionally engage said plate, and thereby retain the bar 28 in any adjusted position. It will thus be observed that the bar can be readily raised and lowered to accommodate music of different sizes.

Secured to the upper portion of the left hand side of the board 5 is a spring clip 32 for holding the first sheet of music against movement.

What is claimed is:

1. In a music leaf turner, the combination with a back-board having an opening centrally formed in its upper portion and a second opening formed in its lower portion on one side of the center, of a vertical pivot pin supported by the board and disposed across said opening, a horizontally swinging lever fulcrumed adjacent one end on said pin and forming consequent long and short arms, a leaf-engaging clip carried by the long arm of said lever, means connected to the short arm of the lever for swinging the same, a bell crank lever pivoted at its angle to the rear face of the board, a flexible connection between the short arm of the lever and one arm of the bell crank lever, and a pull rod connected at its upper end to the other arm of the bell crank lever and having its lower end bent at right angles and projecting through the second mentioned opening and constituting a finger-piece.

2. In a music leaf turner, the combination with a back-board having an opening centrally formed in its upper portion and a second opening formed in its lower portion on one side of the center, of a vertical pivot pin supported by the board and disposed across said opening, a horizontally swinging lever fulcrumed adjacent one end on said pin and forming consequent long and short arms, a leaf-engaging clip carried by the long arm of said lever, means connected to the short arm of the lever for swinging the same, a bell crank lever pivoted at its angle to the rear face of the board, a flexible connection between the short arm of the lever and one arm of the bell crank lever, a pull rod connected at its upper end to the other arm of the bell crank lever and having its lower end bent at right angles and projecting through the second mentioned opening and constituting a finger-piece, and means connected to the short arm of the lever for returning said lever to its initial position and for simultaneously returning the pull rod to its initial position.

3. In a music leaf turner, the combination with a back-board having an opening centrally formed in its upper portion and openings respectively formed in its lower portion on either side of the center, of a vertical pivot pin supported by the board and disposed against the first mentioned opening, a horizontally swinging lever fulcrumed adjacent one end on said pin and forming consequent long and short arms, a leaf-engaging clip carried by the long arm of said lever, a bell crank lever fulcrumed on the rear face of the board at one side of the center, a flexible connection between the short

arm of the lever and one arm of the bell
crank lever and having its lower end bent
forwardly at right angles and projecting
through one of the second mentioned open-
5 ings to form a finger-piece, a second bell
crank lever fulcrumed on the rear face of
the board, a flexible connection between the
short arm of the lever and one arm of the
last mentioned bell crank lever, and a pull
10 rod connected at its upper end to the other
arm of the second mentioned bell crank le-

ver and having its other end bent forwardly
at right angles and projecting through the
other of said second mentioned openings
and constituting a finger-piece, said rods be- 15
ing alternately actuated.

In testimony whereof, I affix my signa-
ture, in presence of two witnesses.

NOLAND B. REES, JR.

Witnesses:

A. ARTMAN,

E. A. MCFARLAND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
