H. B. RUSSELL.

MUSIC TURNING DEVICE.

APPLICATION FILED OCT. 28, 1919.

1,347,556.

Patented July 27, 1920.

2 SHEETS—SHEET 1.

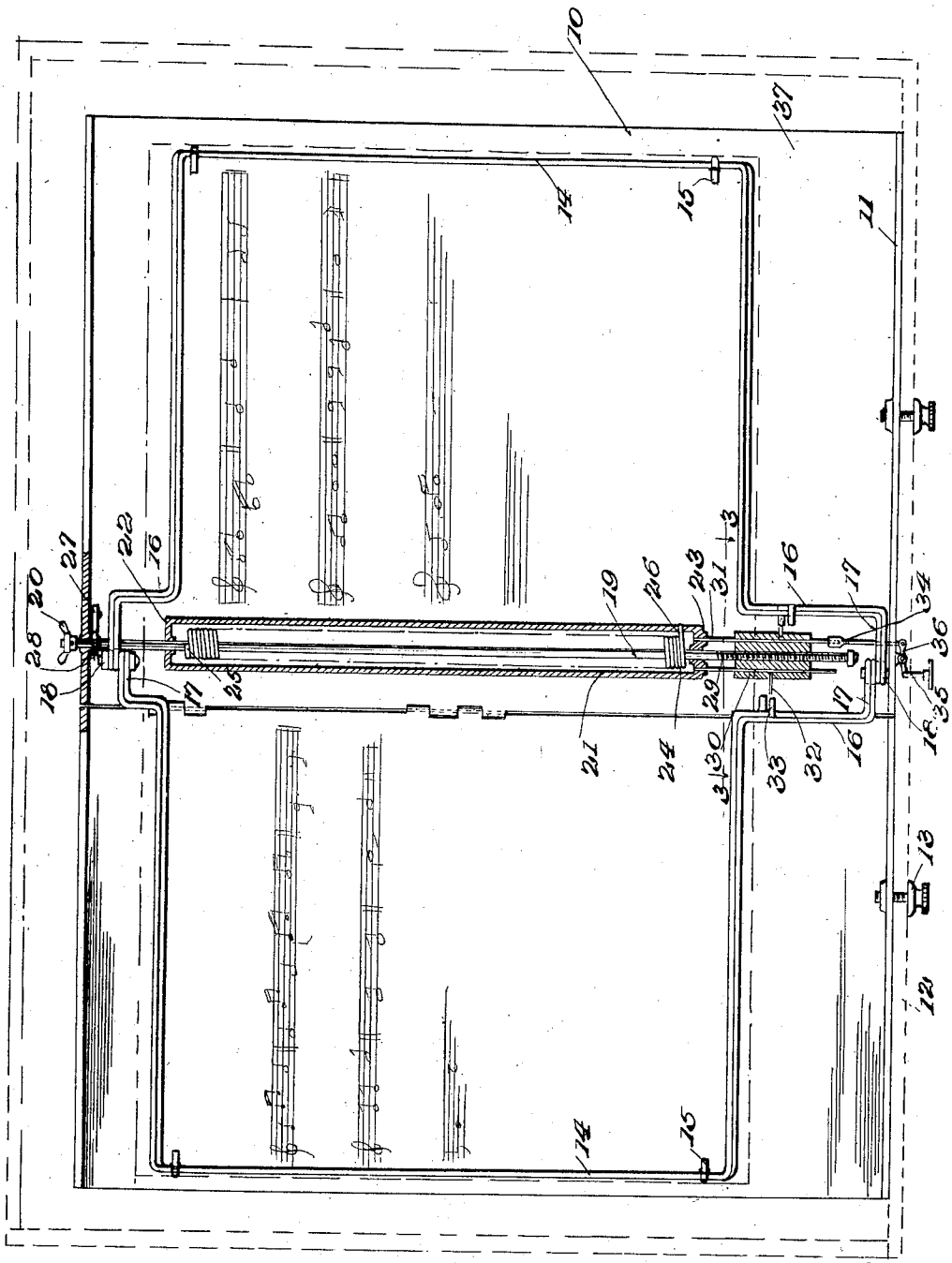



Fig. 1.

Inventor:
H. B. Russell

by Lacey & Lacey, Atty's.
his

H. B. RUSSELL.

MUSIC TURNING DEVICE.

APPLICATION FILED OCT. 28, 1919.

1,347,556.

Patented July 27, 1920.

2 SHEETS—SHEET 2.

Fig. 3.

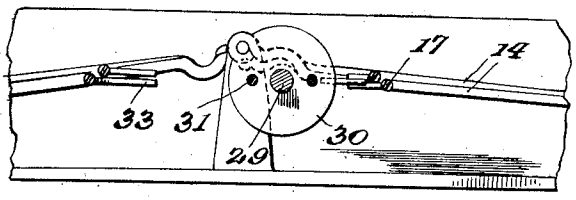
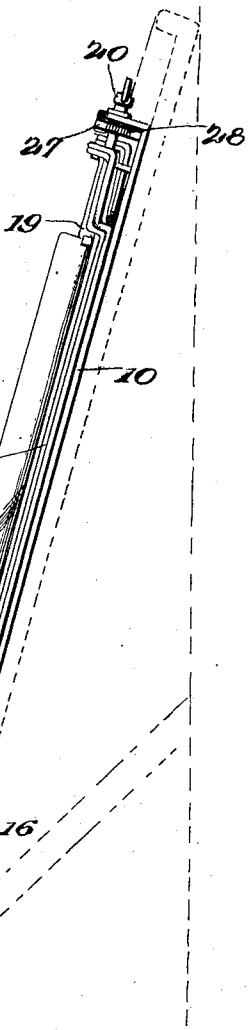



Fig. 2.



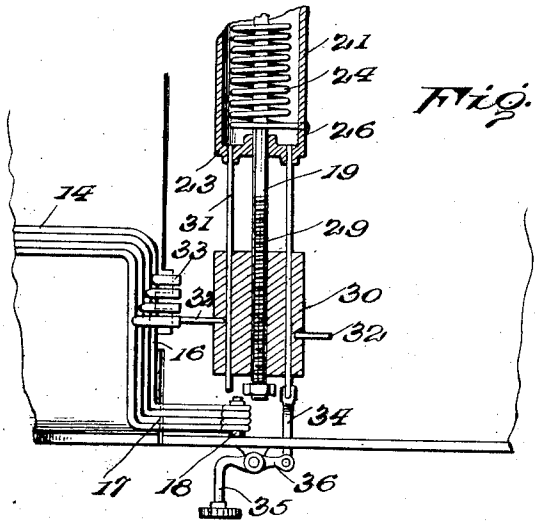




Fig. 4.

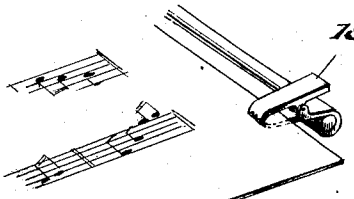



Fig. 5.

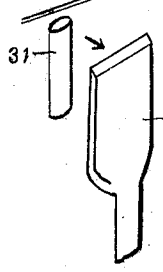



Fig. 6.

Inventor.
H. B. Russell.

by Lacey & Lacey, Atty's
his

# UNITED STATES PATENT OFFICE.

HOMER B. RUSSELL, OF WALNUT GROVE, ALABAMA.

## MUSIC-TURNING DEVICE.

1,347,556. Specification of Letters Patent. Patented July 27, 1920.

Application filed October 28, 1919. Serial No. 334,005.

*To all whom it may concern:*

Be it known that I, HOMER B. RUSSELL, a citizen of the United States, residing at Walnut Grove, in the county of Blount and State of Alabama, have invented certain new and useful Improvements in Music-Turning Devices, of which the following is a specification.

My invention relates to improvements in sheet music supports having novel means for turning the leaves of the music.

An important object of this invention is to provide a leaf-turning device for sheet music which may be readily operated by a slight movement upwardly of the hand.

A further object of the invention is to provide a sheet music turning device including a plurality of sheet supports and novel means for presenting the actuating mechanism to the sheet music supports successively.

A further object of the invention is to provide a sheet music turning device which may be readily and conveniently attached to a piano or other support and which is simple to operate and of highly simplified construction.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a front elevation of the device applied, parts being shown in section,

Fig. 2 is a side elevation of the same set for use,

Fig. 3 is a horizontal section taken on line 3—3 of Fig. 1,

Fig. 4 is an enlarged fragmentary elevation of the device at the completion of the turning operation,

Fig. 5 is a fragmentary perspective of one of the leaf supports,

Fig. 6 is a detail perspective of a trigger embodied in the invention.

In the drawing wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 10 designates a frame having a base 11 secured to a support 12 by clamping devices 13. The support 12 is in this case the ledge of a piano, though the device may be applied to music stands or other suitable objects.

A plurality of leaf supports 14, preferably of wire, are provided with sheet clasps 15 adapted to engage the edges of the individual sheets for supporting the same. The inner portions of the supports 14 are provided with elbows 16 having horizontal arms 17 which are pivotally connected to pivot pins 18 carried by the upper and lower sides of the frame.

A spindle 19 extends vertically through the frame 11 and is provided at its upper end with a winding key 20 adapted for rotating the same. A tubular member or sleeve 21 surrounds the greater portion of the spindle 19 and has its upper and lower ends 22 and 23 respectively closed. A coil spring 24 is arranged within the tubular member 21 and surrounds the spindle 19 and has its upper end anchored to the spindle as indicated at 25. The spring 24 which is adapted for rotating the sleeve 21 has its lower end secured to the sleeve as indicated at 26. A pawl 27 engages a small ratchet wheel 28 carried by the spindle and is adapted to restrict the rotary movement of the spindle 19 to its winding direction.

The lower end portion 29 of the spindle 19 has threaded engagement with a tubular section 30 which is adapted for vertical movement during rotation. A pair of spaced, parallel, elongated arms 31 are rigidly secured to the lower end 23 of the sleeve 21 and are slidably extended through the tubular section 30 and are adapted to rotate the tubular section 30 with the sleeve 21. A pair of diametrically opposed, laterally projecting arms 32 are carried by the tubular section 30 and are adapted to engage lugs 33 of the lower elbows 16. A trigger 34 engages one of the arms 31 for locking the sleeve 21 and a tubular section 30 against rotation. An operating handle 35 is connected to the trigger 34 through the medium of a link 36. As is obvious from Fig. 1 the upward movement of the operating member 35 releases the trigger 34 from engagement with one of the arms 31 and permits of the rotation of the tubular section 30 under the influence of the coil spring. During the rotation of the section 30, one of the arms 32 engages the rear side of the adjacent lug 33 and thereby imparts a half a turn to one of the sheet supports 14. As illustrated in Fig. 1, the spindle 19 is arranged to one side of the pivot elements

18 and the arms 32 are therefore released from contact with the lugs 33 before the support 14 completes a half a turn. In releasing one of the arms 32 from engagement with the co-acting lug 33, prior to the completion of the turning of the support 14, the diametrically opposed arm 32 is permitted to engage the lug 33 of the support to be subsequently turned. As illustrated in Fig. 1 the lugs 33 are arranged in superposed spaced relation, the first lug to be engaged being arranged uppermost and the remaining lugs arranged accordingly. During the rotation of the sleeve 30 the same is lowered through its engagement with the screw threads 29 and the arms 32 are therefore brought into engagement with the proper lugs 33.

In the operation of the device, the spring 32 is wound and the tubular section 30 is elevated to the position illustrated in Fig. 2. Individual sheets of music are now applied to the several supports 14 which are arranged in book formation. When it is desired to turn a sheet, the operating member 35 is pushed upwardly and the flat head of the trigger 34 is thereby drawn out of engagement with the adjacent arm 29. This permits the tubular section 30 to partake of a half turn in a clockwise direction to turn the support 14. Prior to the completion of the turning of the support 14 the co-acting arm 32 is brought out of engagement with the lug 33 and the diametrically opposed arm 32 is therefore permitted to engage the rear side of the next lug.

The rotary movement of the section 30 lowers the same for bringing one of the arms 32 into the horizontal plane of the lug next to be moved.

The frame 10 which is preferably of sheet metal includes a pair of hingedly connected sections 37 adapted to be folded together at one side of the leaf supports 14, when it is desired to close the device.

While I have shown and described the preferred embodiment of the invention, it is understood that such minor changes in arrangement and construction of parts may be made as will remain within the spirit of the invention and the scope of what is claimed.

Having thus described my invention, what I claim is:

1. A music turning device including a plurality of supports having pivoted arms provided with superposed lugs, a vertically arranged spindle having one end portion screw threaded, a spring actuated member surrounding said spindle, a pair of spaced parallel rods connected to said spring actuated member on opposite sides of said spindle, a vertically movable and rotatable operating member having threaded engagement with the threaded portion of said spindle and slidably receiving said spaced parallel arms, radially disposed arms carried by said operating member and adapted to successively engage said superposed lugs, and a trigger alternately engaging said spaced parallel rods.

2. A device of the class described including a plurality of sheet supports having pivotally connected arms, a spindle arranged at one side of the pivotally connected arms of said support, a sleeve surrounding said spindle, a spring connected at its opposite ends to said sleeve and said spindle, a vertically movable section surrounding the lower portion of the spindle, means carried by said sleeve and slidably connected to said vertically movable section, a lug carried by the arm of each support, laterally projecting arms carried by said vertically movable section, and means associated with said spindle for presenting the laterally projecting arms of said vertically movable section to said lugs successively.

3. A sheet music turning device including a plurality of pivoted sheet music supports, a vertically movable operating member arranged adjacent said supports, diametrically opposed arms extending radially from said operating member, superposed lugs carried by said supports and adapted to be engaged separately by the radial arms of said operating member, a screw threaded spindle extending through said operating member and adapted for moving the same downwardly during rotation whereby said arms are presented successively to said lugs, a rotatable spring actuated sleeve surrounding said spindle, and means slidably and non-rotatably connecting said vertically movable operating member with said rotatable spring actuated sleeve.

4. A device of the class described including a plurality of supports having L-shaped arms, pivot pins connecting said arms, a spindle arranged in spaced parallel relation to said pivot pins, a sleeve surrounding said spindle, a coil spring connected at its opposite ends to said sleeve and to said spindle and adapted for rotating said sleeve, a pair of rods secured to the lower end of the sleeve, a vertically movable operating member slidably receiving said rods, the lower portion of said spindle being extended through said operating member and having screw threaded engagement with the same, lugs carried by the L-shaped arms of said supports, arms carried by said operating member and adapted to engage said lugs during the rotary movement of said operating member, and a trigger adapted to alternately engage each of said rods for locking the operating member against rotation.

5. A device of the class described including a plurality of supports, pivot pins con-

necting said supports, an operating member having radially projecting arms, superposed lugs carried by the supports and adapted to be successively engaged by said arms, a spring actuated device arranged adjacent said operating member, spaced parallel rods connected to said spring actuated device and slidably extended through said operating member for rotating the same, and means to successively present the arms of said operating member to the lugs of said supports successively.

In testimony whereof I affix my signature.

HOMER B. RUSSELL. [L. S.]