E. BROWN.

MUSIC LEAF TURNER.

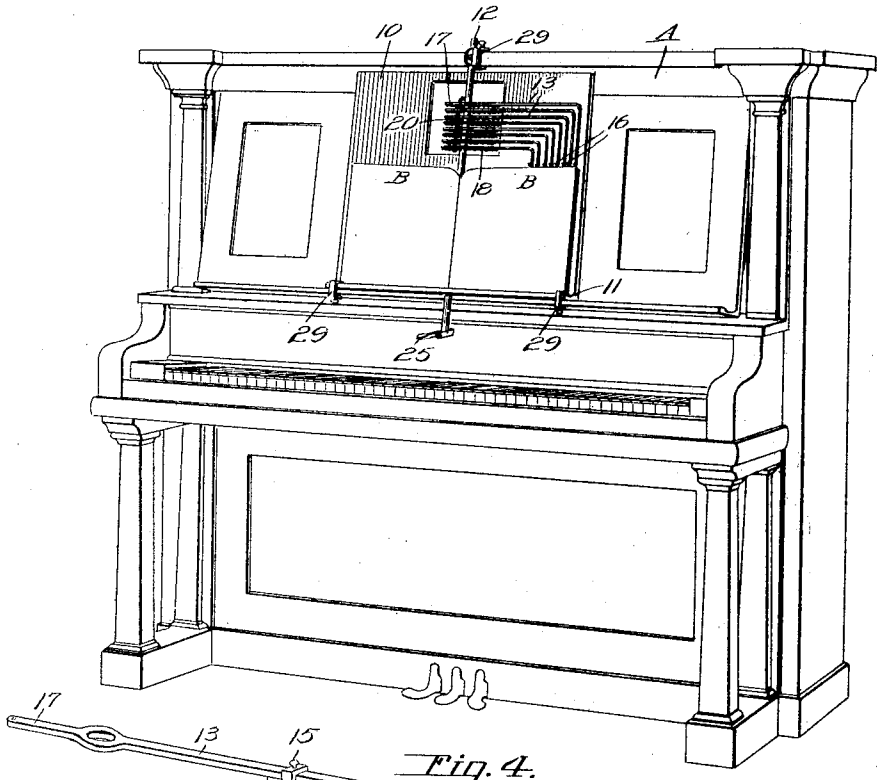
APPLICATION FILED APR. 17, 1916.

1,209,548.

Patented Dec. 19, 1916.

2 SHEETS—SHEET 1.

Fig. 1.



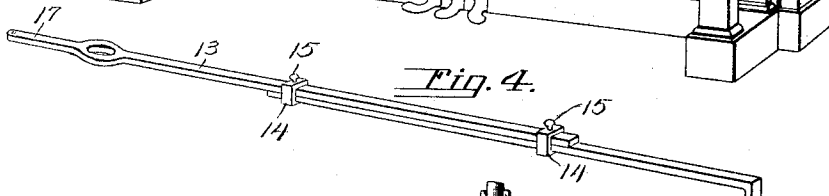
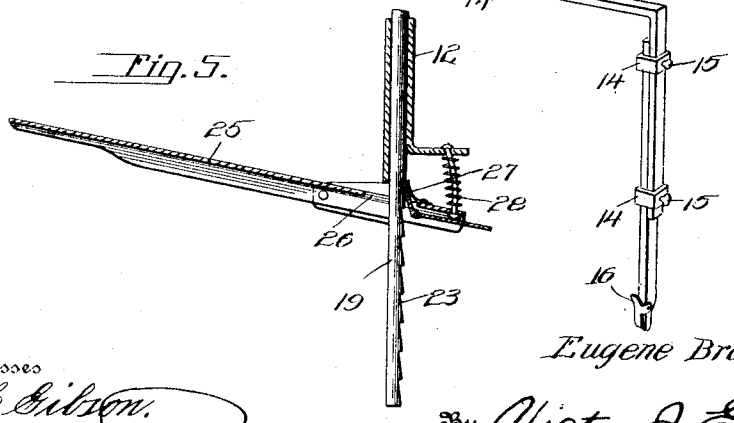


Fig. 4.

Fig. 5.



Witnesses

F. C. Gibson.

H. L. Parker.

Inventor

Eugene Brown.

By Victor J. Evans

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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2 SHEETS—SHEET 2.

Fig. 2.

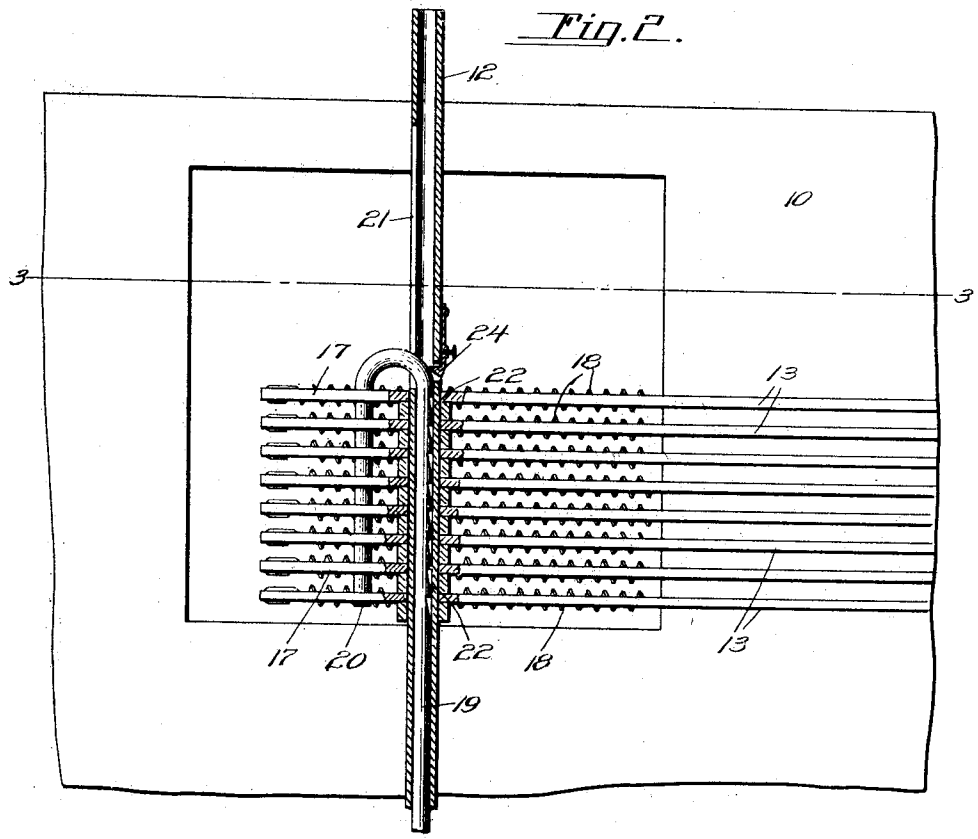
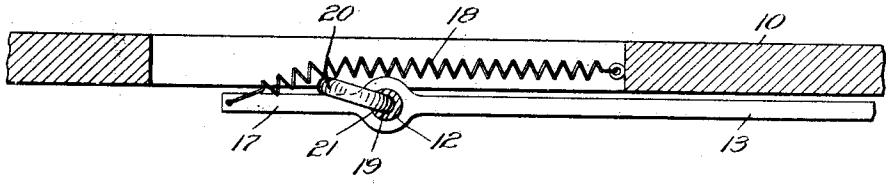


Fig. 3.



Inventor

Eugene Brown.

Witnesses

F. L. Gilpon.

H. E. Parker.

By Victor J. Evans

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EUGENE BROWN, OF EARLSBORO, OKLAHOMA.

MUSIC-LEAF TURNER.

1,209,548. Specification of Letters Patent. Patented Dec. 19, 1916.

Application filed April 17, 1916. Serial No. 91,783.

To all whom it may concern:

Be it known that I, EUGENE BROWN, a citizen of the United States, residing at Earlsboro, in the county of Pottawatomie and State of Oklahoma, have invented new and useful Improvements in Music-Leaf Turners, of which the following is a specification.

The invention relates to a music leaf turner, and more particularly to the class of portable music leaf turners.

The primary object of the invention is the provision of a device of this character wherein the sheets of music are automatically turned singly on depressing a key, which is positioned in convenient reach above the keyboard of a piano, organ or the like, thereby enabling the handling of the music with despatch while playing the instrument.

Another object of the invention is the provision of a music leaf turner of this character wherein the construction thereof is novel in form to assure accuracy in its operation and avoid the possibility of the parts thereof becoming out of order.

A further object of the invention is the provision of a music leaf turner of this character which is simple in construction, thoroughly reliable and efficient in its operation, strong, durable, readily and easily applied to or removed from an instrument or stand and inexpensive in manufacture.

Other objects will be in part obvious and in part hereinafter set forth.

The invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the construction hereinafter described, and the scope of the application of which will be indicated in the claim hereunto appended.

In the accompanying drawings: Figure 1 is a perspective front elevation of a piano showing a music leaf turner constructed in accordance with the invention applied; Fig. 2 is a fragmentary elevation showing certain of the parts in section; Fig. 3 is a sectional view on the line 3—3 of Fig. 2; Fig. 4 is a perspective view of one of the turning arms; Fig. 5 is a fragmentary vertical sectional view through the tube and operating key.

Similar reference characters indicate corresponding parts in the several views throughout the drawings.

Referring to the drawings in detail, A designates generally a portion of a piano which is merely shown to illustrate the mounting, use and mode of operation of the music leaf turner hereinafter described.

The music leaf turner comprises a board-like section 10 which has on its lower edge a flange or ledge 11 which serves as the rest for the music B, the leaves of which are adapted to be turned singly in a manner presently described.

Fixed to the board-like section 10, centrally thereof, is a tube or pipe 12 which has journaled thereon a plurality of music leaf turning arms 13, each being formed in sections which are adjustably secured together through the medium of sleeves 14 surrounding the same and having threaded therein set screws 15 so that the arms can be lengthened or shortened, as the occasion may require. On the free end of each arm 13 is a spring-held clip 16 which engages with the upper edge of the leaf of music for connecting the same thereto. The arms are preferably elbow-shaped and are formed with extensions 17 at their pivoted ends, and to these extensions are connected coiled retractile springs 18 which are also connected to the board-like section 10 and serve to tension the arms for the turning thereof from right to left so that the leaves of music will be turned in their order, the arms 13 being normally locked in a manner presently described.

Slidably mounted in the tube or pipe 12 is an operating rod 19 which is formed with an outwardly and downwardly bent upper latch end 20 which normally lies across the extension 17 to hold the arms against movement under the tension of the spring 18 connected therewith. The latch end 20 protrudes through an elongated slot 21 formed in the tube or pipe 12 so as to lie exteriorly thereof. Formed at the upper and lower ends of the rod 19 are toothed racks 22 and 23 respectively, while formed interiorly of the tube or pipe 12 at the vicinity of the slot 21 is a spring keeper 24 which is adapted to engage the teeth of the upper rack 22 to lock the rod in its raised position.

Pivotally mounted on the lower end of the pipe or tube 12 is a key 25 which is formed with an opening 26 receiving the lower rack end 23 of the rod 19, and one end of this opening 26 is provided with a nose or catch 27 which is adapted to engage the teeth of the lower rack 23 for the feeding of the rod

19 upwardly within the tube or pipe 12 and thereby bringing the latch end 20 into a position for releasing the arms 13 successively in single order, as will be clearly apparent.

Acting against the inner end of the key 25 is a coiled expansion spring 28 which serves to normally elevate the front end of the key, and on depressing the said key the catch 27 will lift the rod 19 by the engagement of the catch with the tooth 23 and on relieving pressure upon the key the spring 28 will become active against the inner end thereof to elevate the front end of the same, whereupon the catch will be shifted to engagement with the next tooth 23 on the rod 19 and on repeated operation of this key the rod 19 is elevated, as will be obvious.

The board-like section 10 is detachably fastened upon the piano A through the medium of clamps 29 and when in place is disposed at a forward inclination so that the inner ends of the arms will not strike the instrument when turning, it being understood, of course, that the board-like section can be spaced the proper distance away from the music rack on the piano so as to afford a clearance for the swinging of the inner ends of the arms 13 of the music leaf turner.

From the foregoing description, taken in connection with the accompanying drawings, the construction and manner of operation of my music leaf turner will be readily understood and a more extended explanation has therefore been omitted.

Having thus described my invention, I claim:

A music leaf turner comprising a support, a guide tube located centrally of the support and having a slot in the side thereof, a plurality of music leaf turning arms journaled upon the tube and in spaced parallel relation to each other and having inner end extensions, coiled retractile springs connected to the support and to the end extensions to move the arms, a rod slidable through the tube and having an upper gooseneck extension passed through the slot to engage with the inner end extensions of the arms, ratchet teeth formed near opposite ends of the rod within the tube, a spring latch mounted on the tube and engageable with certain of the teeth, an operating key pivoted to the lower end of the tube and having a catch for engagement with the other teeth upon said rod, a spring acting upon the key, a spring acting upon the catch to hold the same in position for positive engagement with the teeth, and an adjusting screw carried by the spring latch and working against the tube for moving said latch out of engagement with the teeth on the rod.

In testimony whereof I affix my signature in presence of two witnesses.

EUGENE BROWN.

Witnesses:
J. L. FRANCIS,
E. S. WILSON.

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