

1,237,339.

P. HOYER.  
MUSIC LEAF TURNER,  
APPLICATION FILED SEPT. 14, 1916.

Patented Aug. 21, 1917.  
3 SHEETS—SHEET 1.

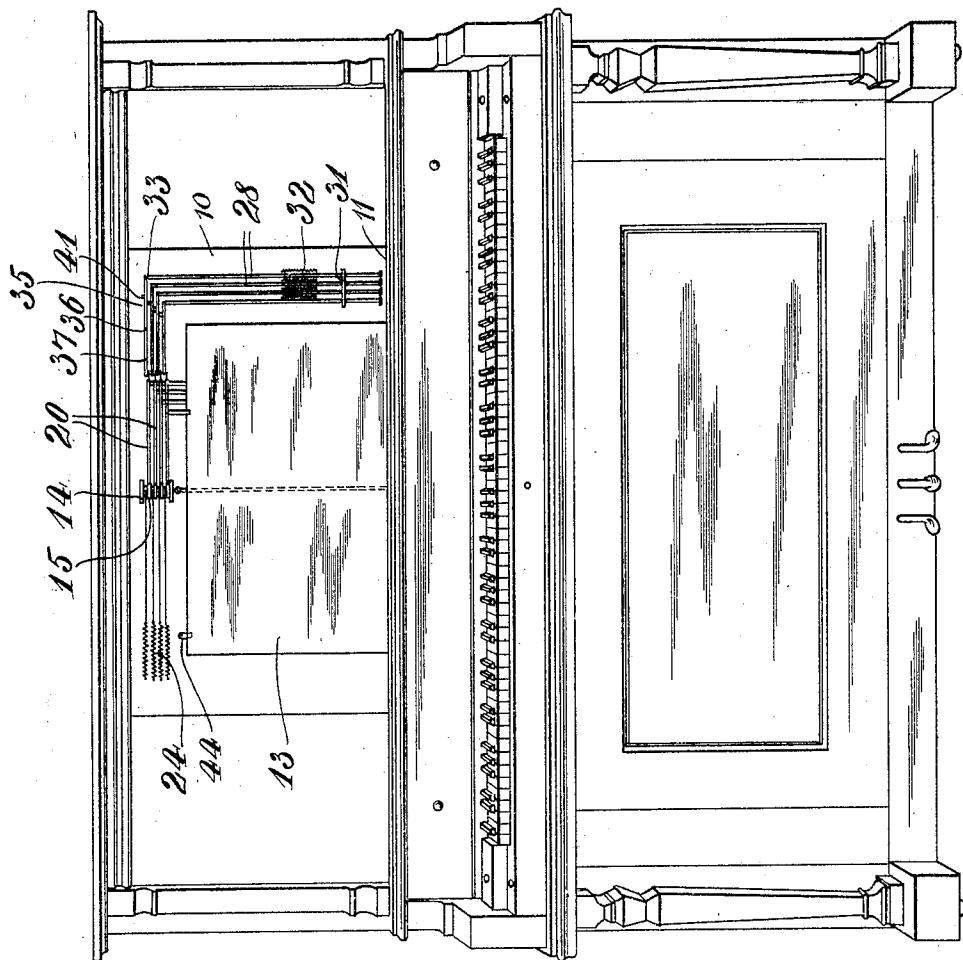


Fig. 1.

Inventor  
*Paul Hoyer*  
By his Attorney  
*Oscar Geier*

P. HOYER.  
MUSIC LEAF TURNER.  
APPLICATION FILED SEPT. 14, 1916.

1,237,339.

Patented Aug. 21, 1917.

3 SHEETS—SHEET 2.

Fig. 2.

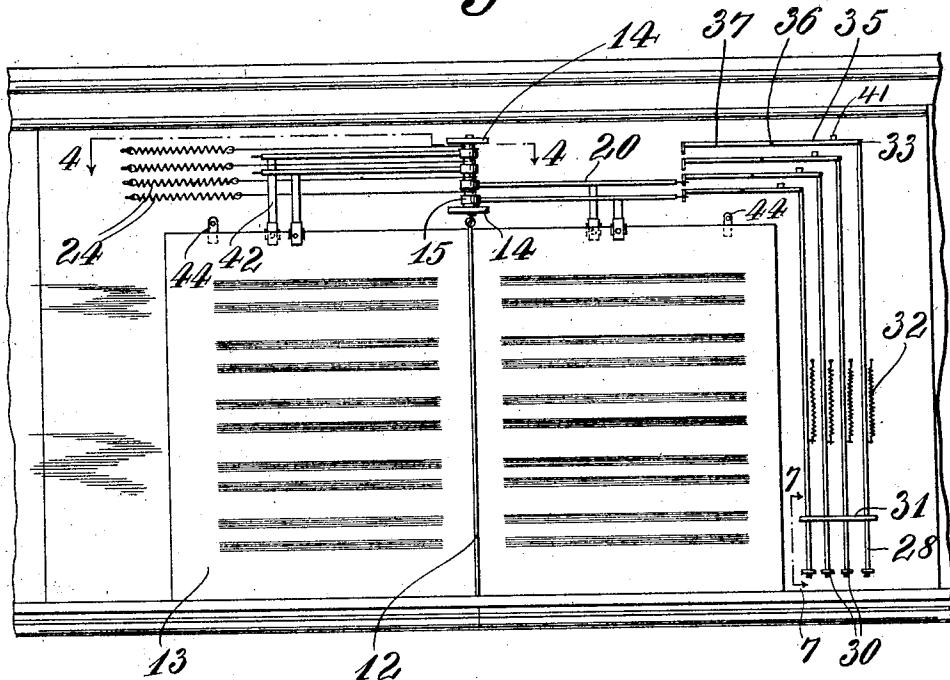
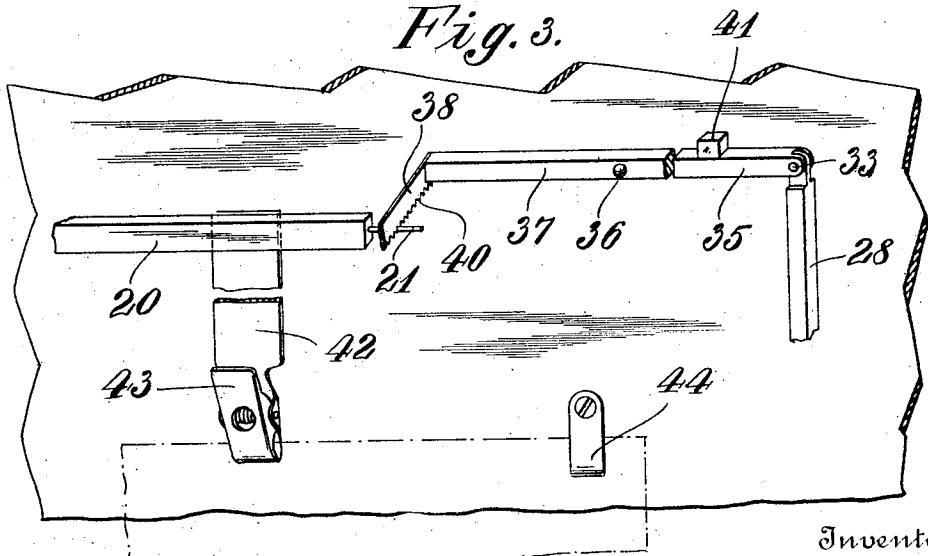


Fig. 3.



**Inventor**

*Paul Hoyer*

By his Attorney

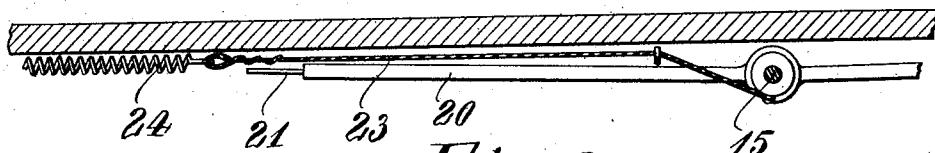
Oscar Geier

P. HOYER,  
MUSIC LEAF TURNER,  
APPLICATION FILED SEPT. 14, 1916.

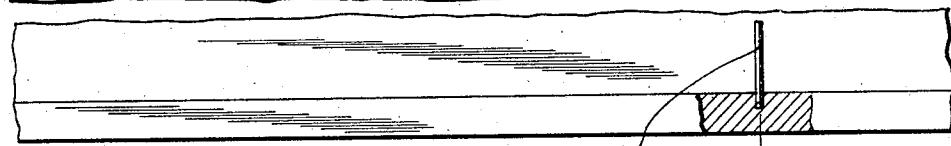
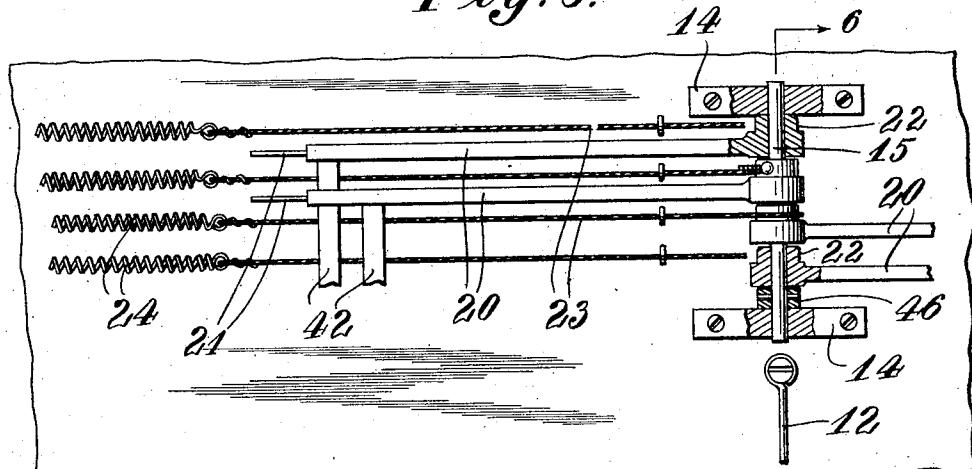
1,237,339.

Patented Aug. 21, 1917.  
3 SHEETS—SHEET 3.

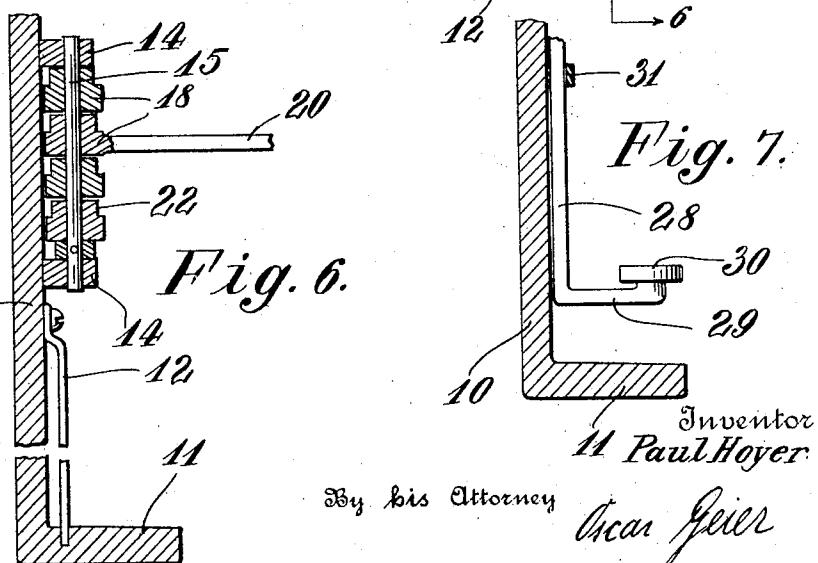
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



Inventor  
Paul Hoyer

By his Attorney

Oscar Geier

# UNITED STATES PATENT OFFICE.

PAUL HOYER, OF DOVER, NEW JERSEY.

MUSIC-LEAF TURNER.

1,237,339.

Specification of Letters Patent. Patented Aug. 21, 1917.

Application filed September 14, 1916. Serial No. 120,061.

To all whom it may concern:

Be it known that I, PAUL HOYER, a subject of the Emperor of Germany, and a resident of Dover, in the county of Morris and

5 State of New Jersey, have invented new and useful Improvements in Music-Leaf Turners, of which the following is a specification.

This invention relates to improvements in appliances for turning leaves of sheet 10 music and the like in which the leaves are printed upon both sides and engaged together in the manner of a book.

The principal object of the invention is to provide a device which may be applied to 15 the front of a musical instrument of the piano type, the music leaves being each independently operated at such moment as may be required by merely making manual contact with a knob or lever disposed within 20 reach of the operator.

Another object is to provide means whereby the pages or sheets of music may be returned or operated in either direction, and finally to provide such operating device in 25 forms convenient of application, inexpensive in construction and positive in their operation.

These and other objects are attained by the novel design, construction and combination hereafter described and shown in the 30 accompanying drawings, forming a material part of this disclosure, and in which:—

Figure 1 is a front elevational view of a musical instrument showing the application 35 of the invention.

Fig. 2 is an enlarged front view indicating the application to the printed sheets of music.

Fig. 3 is a perspective view showing a 40 further enlargement of the operating mechanism.

Fig. 4 is a horizontal sectional view taken on line 4—4 of Fig. 2.

Fig. 5 is a partial front and sectional view 45 showing parts of the operating mechanism.

Fig. 6 is a transverse sectional view taken on line 6—6 of Fig. 5, and

Fig. 7 is an enlarged sectional view taken 50 on line 7—7 of Fig. 2.

A stand or easel 10 formed with a footing 55 11 is adapted to rest upon any convenient support, as at the upper front part of a musical instrument, and is provided with an arm 12 standing toward the front and having a space between its inner surface and the front of the support in which the leaves

13 of music may be inserted and whereby the same are held in a relatively vertical position, so as to be conveniently seen by the musician.

60 A pair of brackets 14 stand slightly outward from the front of the easel 10 and mounted in the brackets is a shaft 15 having a fixed collar 17, resting upon the lower bracket and holding the shaft in relative position. A plurality of hubs 18 are freely rotatable upon the shaft 15 and from these hubs extend arms 20 having at their extreme outer or free ends pins 21 acting as extensions of the arms for purposes which will 65 70 further on become evident.

Formed with the hubs 15 are drums 22 to which are secured one end of flexible cords 23 the other end of the cords being attached to helical coiled pull spring 24 secured at 75 their outer end in turn to the easel 10.

Thus as the arms are moved causing the hubs and drums to rotate the springs exert a 80 tendency to turn the arms to the left against the support easel 10. Arranged upon the opposite side of the support easel are a plurality of vertical bars 28 having an outwardly extending front portion 29 provided with push buttons 30, the bars being guided by means of a clip 31 and held normally 85 upward by light pull springs 32 as best shown in Fig. 2.

The upper ends of the bars 28 are engaged by pivots 33 with the outer end 35 of levers pivoted near their center 36, the opposite end 37 of the levers having attached to them outwardly extending arms 38 provided with a plurality of serrations or teeth 40 adapted to engage with the pins 21 secured at the 90 front of the arms 20 as can best be seen in 95 Fig. 3.

Stops 41 are arranged on the face of the support or easel limiting the upward motion of the levers and rods 28 so that the push buttons 30 stand normally in aligned rows.

Attached to each of the arms 20 are depending strips 42 having at their extreme lower ends securing devices as the spring clips 43 adapted to engage at different positions with the upper marginal portion of the music or other sheet to be turned, the last sheet or page of which may be held by the stationary clip 44.

In operation the several pages or book is 110 passed back of the bar 12 and adjusted in proper position to be read, each of the several sheets to be turned being engaged with

the clips 43 in consecutive order, the first page being engaged with the upper elements so as not to interfere with the succeeding arms as they operate.

5 When it is desired to turn one of the sheets the corresponding push button 30 is depressed and through its connections raises the corrugated arm 38, releasing the pin 21, and allowing the arm 20 to be operated by 10 the pull of the springs 24, folding the sheet of music from right to left, without the necessity of removing the hands from the instrument except for such time as is required to touch the button. Obviously the succeeding sheets are operated in a similar manner.

If it is desired to turn the pages backward the arms 20 may be operated by the hand, the pins 21 engaging with the corrugations 40, holding them securely in position.

20 If the music be in a book of relative thickness the pins 21 would obviously engage toward the outer end of the arms 38 whereas if only the few sheets of music are to be used

the pin will engage closely toward the lever 37.

Having thus described my invention, and set forth the manner of its application and use, what I claim as new and desire to secure by Letters Patent, is:—

A music leaf turner including a support, 30 a shaft mounted thereon, a plurality of leaf engaging arms pivotally mounted on said shaft, means for swinging each of said arms from one side of the shaft to the other, a detent lever for holding each of said arms 35 on one side of said shaft, said detent lever being provided with a plurality of serrations any one of which is selectively adapted to engage one leaf engaging arm as may be required by the various thicknesses of music 40 books, and means for operating each of said detent levers to successively release the leaf engaging arms.

In testimony whereof I have signed my name to this specification.

PAUL HOYER.

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