

No. 776,164.

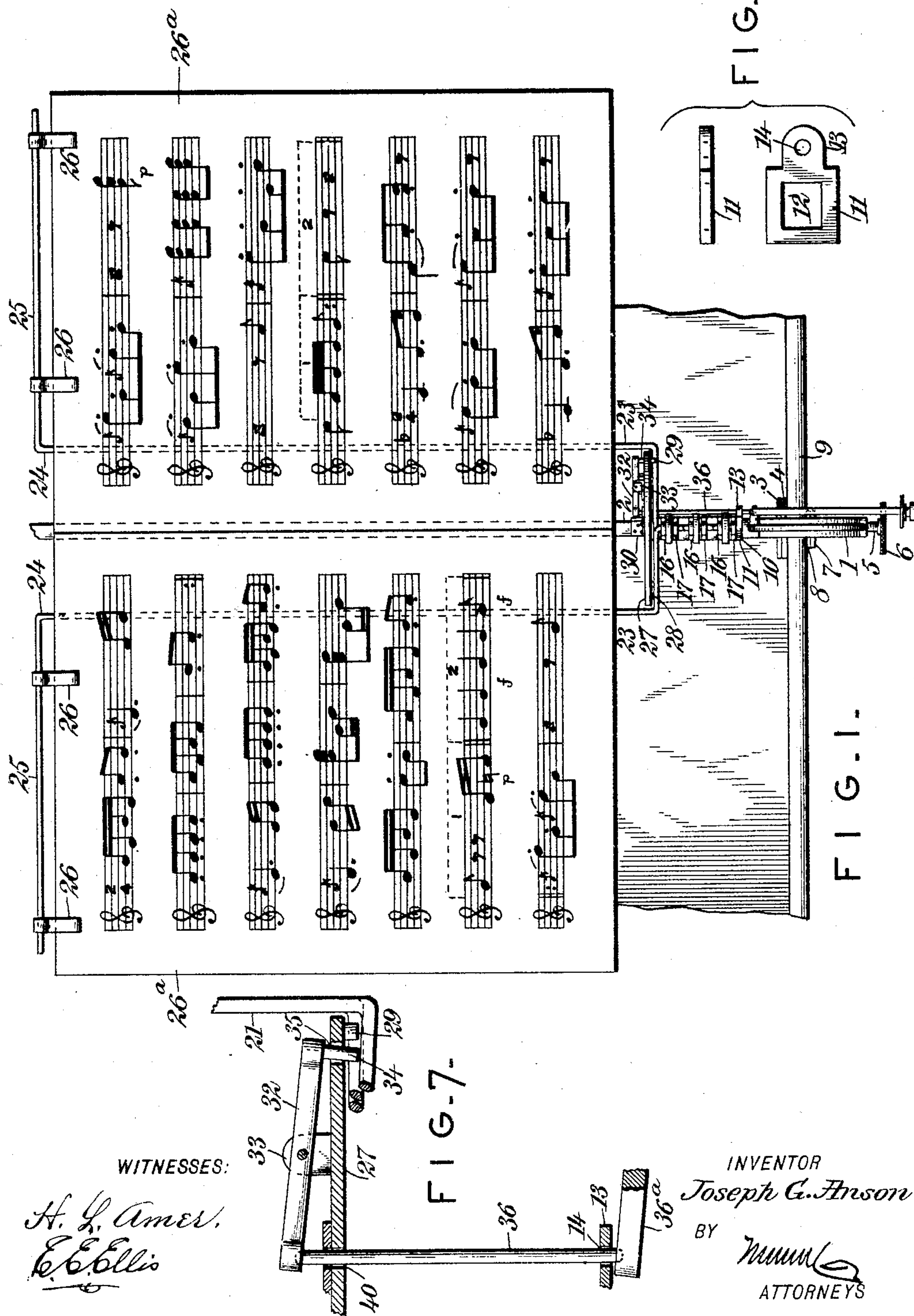
PATENTED NOV. 29, 1904.

J. G. ANSON.  
MUSIC LEAF TURNER.

APPLICATION FILED FEB. 26, 1904.

NO MODEL.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

FIG. 2.

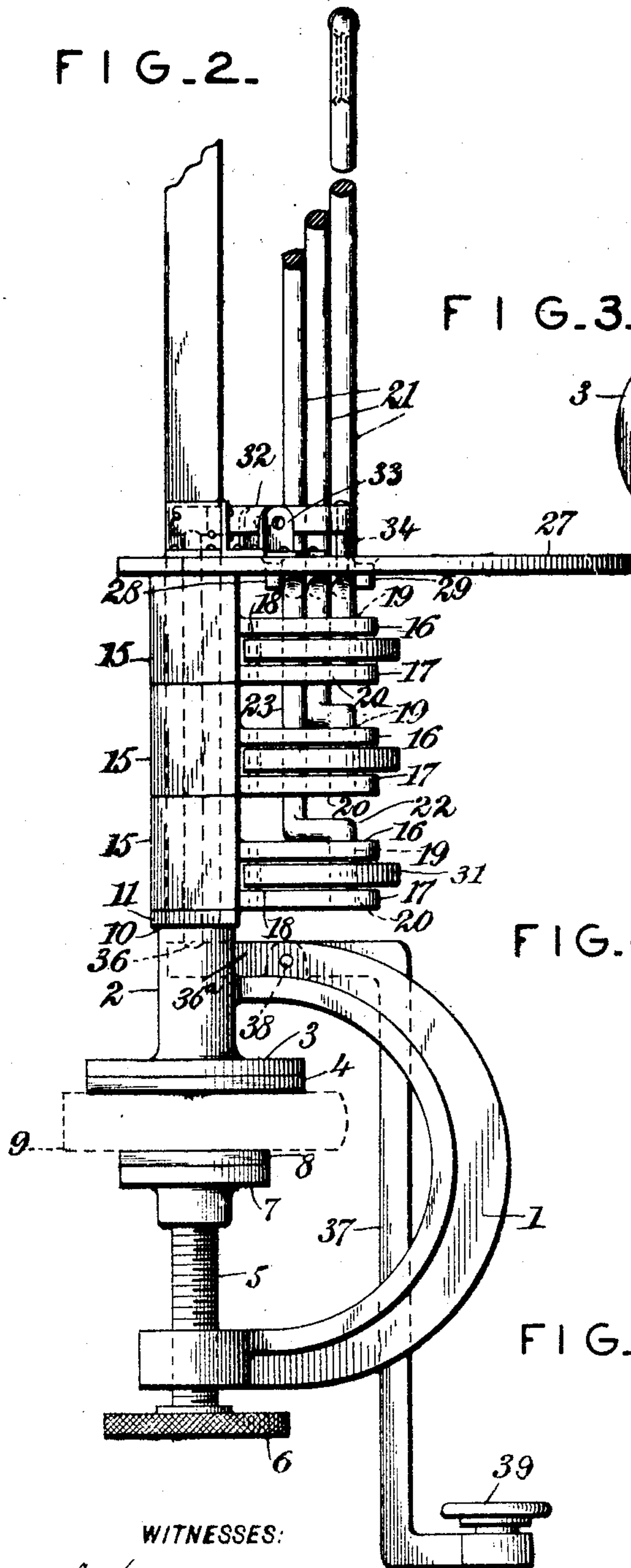


FIG. 3.

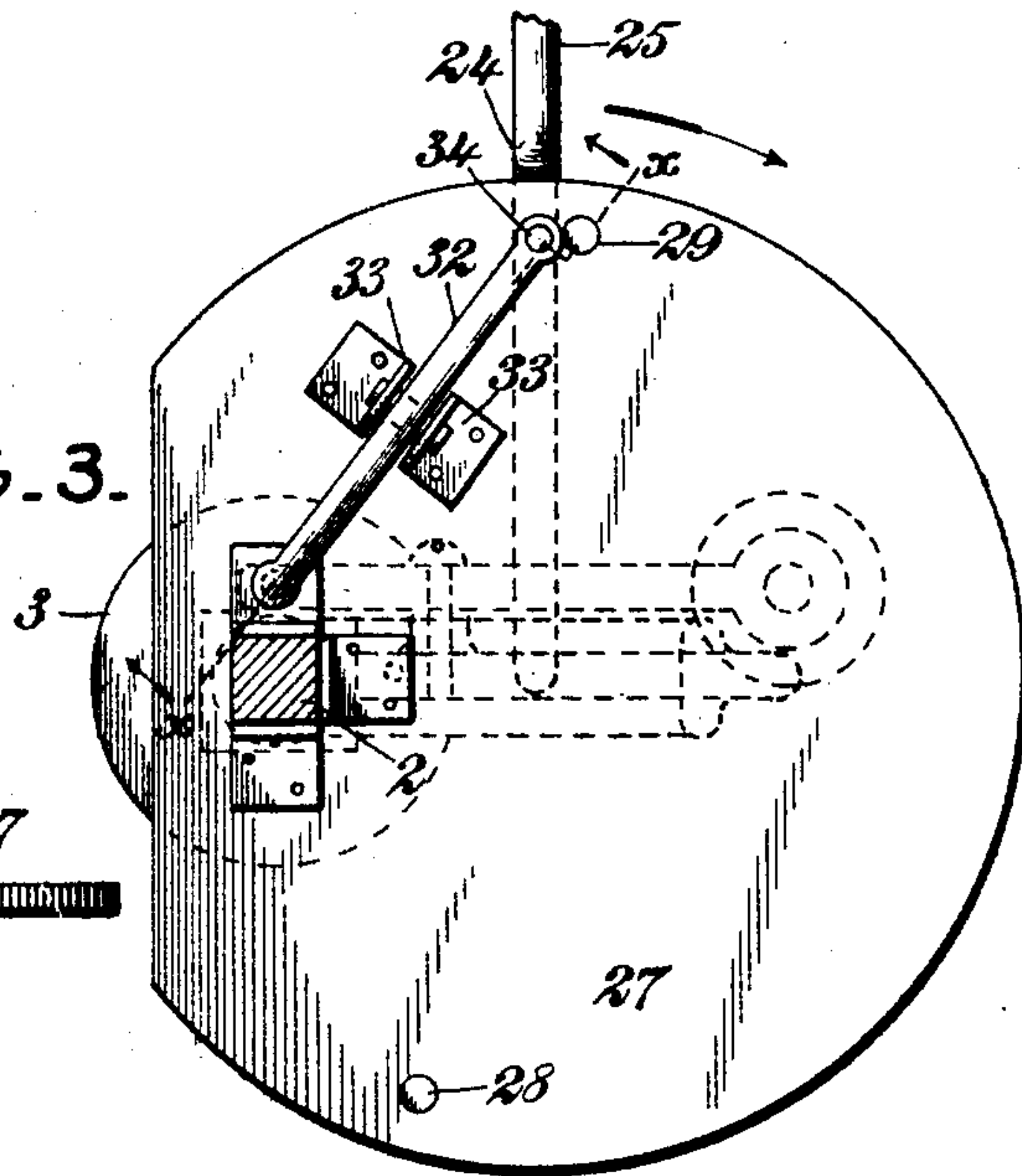


FIG. 4.

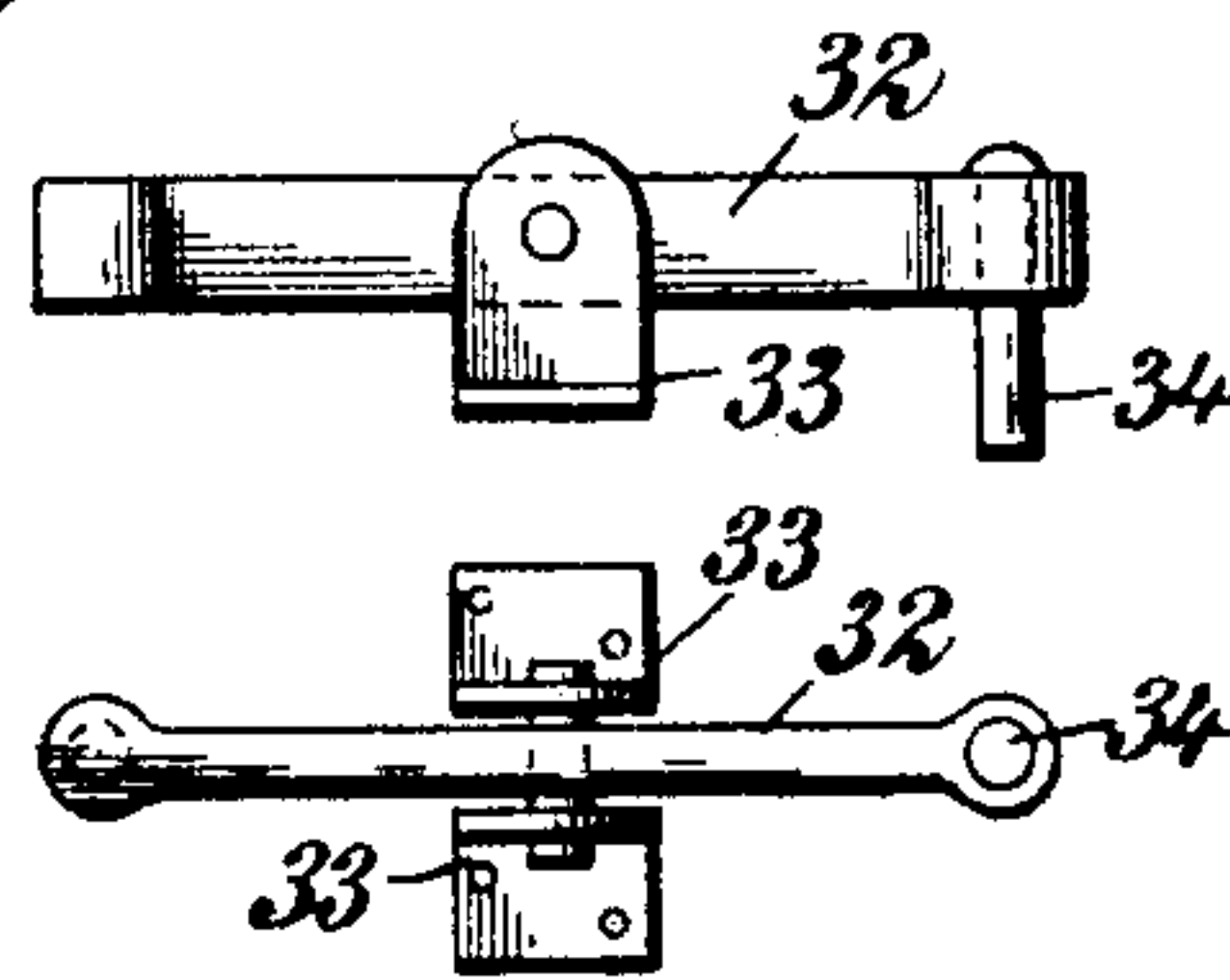
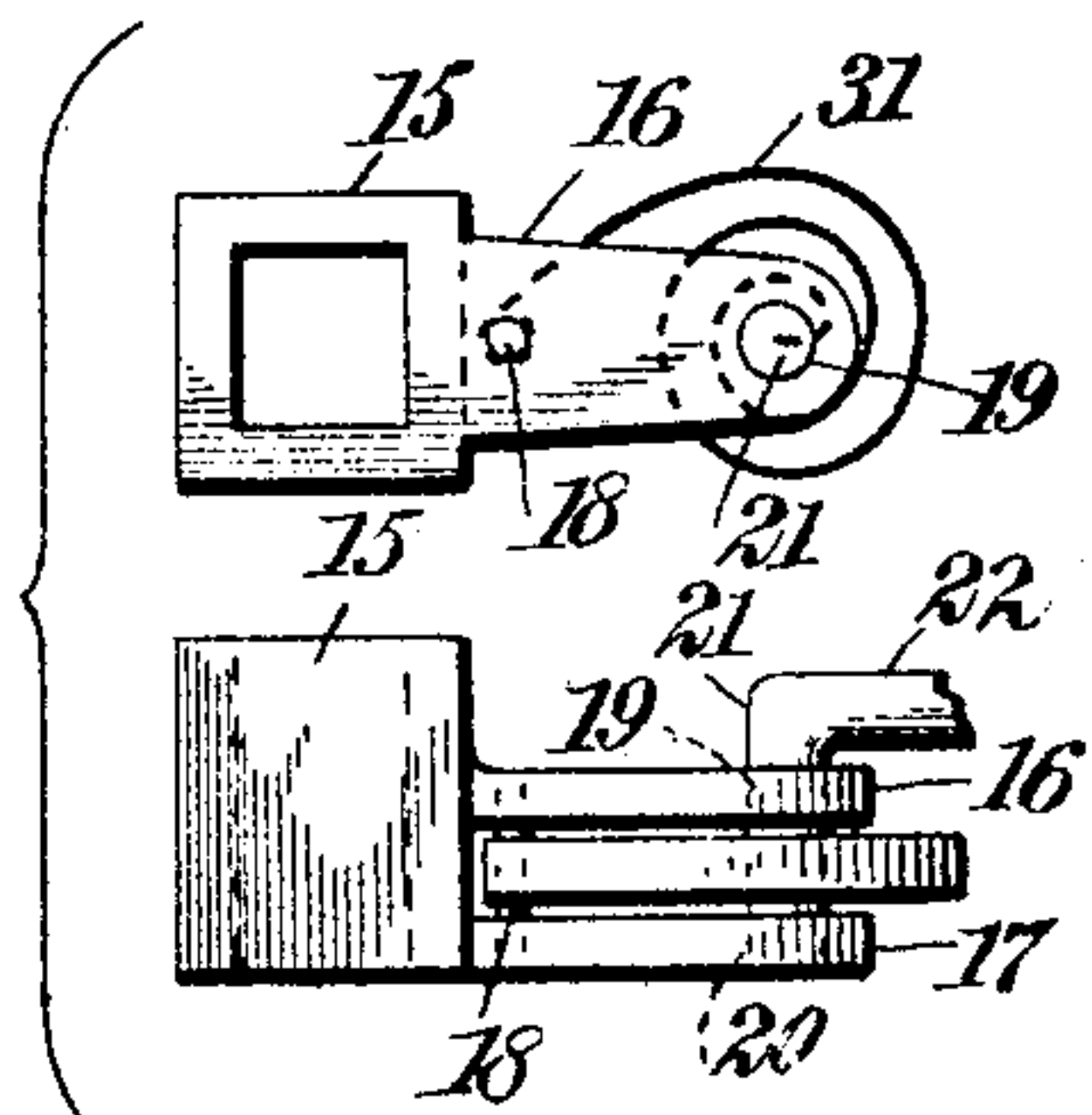


FIG. 5.



WITNESSES:

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ATTORNEYS



# UNITED STATES PATENT OFFICE.

JOSEPH GEORGE ANSON, OF SACRAMENTO, CALIFORNIA.

## MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 776,164, dated November 29, 1904.

Application filed February 26, 1904. Serial No. 195,366. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH GEORGE ANSON, a citizen of the United States, and a resident of Sacramento, in the county of Sacramento and State of California, have invented a new and Improved Music-Leaf Turner, of which the following is a full, clear, and exact description.

This invention relates to music-leaf turners; and it consists, substantially, in the construction and combinations of parts hereinafter particularly described, and pointed out in the claims.

One of the principal objects of the invention is to provide a music-leaf turner of the spring type which is capable of ready attachment to and detachment from a piano, organ, or other instrument or stand and also to provide a device of this character which is comparatively simple in its embodiment and thoroughly effective and reliable in operation, as well as inexpensive to manufacture.

A further object is to provide a device of the kind referred to which is light in weight and strong and durable, besides being easily manipulated and controlled and possessing the capacity for long and repeated service.

The above and additional objects are attained by means substantially such as are illustrated in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a view in front elevation representing my improved music-leaf turner as applied for use upon a piano, music-stand, or the like. Fig. 2 is an enlarged side elevation of the leaf-turning structure with the upper part of the post broken off and the upper parts of the operating or turning rods in section. Fig. 3 is a top plan view, the post or standard being in section. Fig. 4 is a side view and a plan view, respectively, of the pivoted trip-lever and its supports. Fig. 5 is a plan view and a side view, respectively, of one of the supporting-brackets for the operating or turning arms. Fig. 6 is a side view and a plan view, respectively, of the guide for the actuating-rod for the trip-lever; and Fig. 7 is a part-sectional view in detail on the line *x x* of

Fig. 3, illustrating the operation of the trip-lever in releasing one of the operating or turning arms for the music-leaves.

Before proceeding with a more detailed description it may be stated that in the form of my improvements herein shown I provide a suitable clamp for attaching the leaf-turning structure to a piano or other musical instrument or stand, said clamp having projecting upwardly therefrom a post or standard upon which are mounted or supported in superimposed order a series of specially-constructed brackets, upon which in turn are rotatably mounted or supported a series of specially-constructed arms to which the music-leaves to be turned are suitably attached. Said arms are provided with means having a tendency to turn them in a left-hand direction to abut against a stop or rest therefor; but previous to the starting of operations they are turned by the operator in the opposite or right-hand direction and are caught and restrained from such tendency by suitable means until released in succession to perform the intended function thereof. Special means are employed for effecting the release of the arms one after another by which to turn the music-leaves as required, and while I have herein represented my improvements in a certain preferred embodiment it will be understood, of course, that I am not limited to the precise details thereof in practice, since immaterial changes therein may be resorted to coming within the scope of my invention.

Specific reference being had to the accompanying drawings by the designating characters marked thereon, 1 represents, preferably, a curved clamp member attached at its upper end to a post or standard 2, provided at its base 3 with a pad or cushion 4, the lower end of said clamp member being formed with a threaded opening in which works a clamping-screw 5, the lower head 6 of which is preferably milled or roughened to facilitate turning of the screw, while the upper head 7 thereof is also provided with a pad or cushion 8. By means of this construction the leaf-turning structure may be readily fastened to a support, as 9, by simply tightening the said screw, as is apparent.



For a suitable distance from its base the post 2 is preferably circular in cross-section, forming a shoulder 10, while for the remainder of its height the post is preferably square or rectangular, as shown. Seated upon said shoulder is a plate 11, Fig. 6, having a rectangular opening 12 therein to enable the same to fit the lower squared part of the post without turning thereon, said plate having at one side edge thereof a horizontal extension 13, provided with an opening 14, for a purpose to be explained.

Mounted upon the post in superposed order above the said plate 11 are a series of bracket-sleeves 15, formed with square openings to fit the post 2, as shown, also so as not to turn thereon, any number of said sleeves being employed as may be desired. Projecting from the front or forward face of each of said bracket-sleeves 15 are substantially duplicate brackets 16 and 17, disposed one above the other in parallelism, as shown, the same being connected near the sleeve by means of a vertical pin 18 and provided near their outer ends with coinciding openings 19 and 20. Fitting rotatably in the said openings of each pair of brackets is the lower vertical portion of one of a series of leaf-turning arms 21, which is bent outwardly from such portion substantially at right angles, as indicated at 22, thence again vertically at 23 for a suitable height, and finally outwardly again at 26, leaving substantially a free horizontal member 25, having thereon suitable clips 26, which are fastened to the upper edges of the music-leaves 26<sup>a</sup>, as shown in Fig. 1.

Mounted upon the post 2 just above the upper edge of the uppermost bracket-sleeve 15 is a table 27, having depending from the under side thereof a stop 28, located somewhat beyond and to the left of the post, said table being also provided on its under side with a depending catch 29, located beyond and to the right of the post and somewhat in advance of the said stop 28. (See Fig. 3.) The table is secured to the sides of the post by means of angle-plates 30 and suitable bolts, as shown, and it may be here stated that the arms 21 are preferably somewhat resilient in character for the purpose of effecting the desired operation thereof. Secured to the lower vertical portion of each of the arms 21 is the inner end of a coiled spring 31, the other or outer end of which is connected to the pin 18 of the particular pair of brackets 16 and 17 by which the said vertical portion is held, the said spring tending to turn the arm in the direction of and in contact with the said stop 28. Previous to the starting of operations, however, all the arms are turned by hand in the opposite or right-hand direction to be engaged and held behind the catch 29, and for the purpose of successively disengaging the arms from said catch as required I employ a suitable trip-lever 32, pivotally mounted on the upper side

of the table 27 between bearing-plates 33, as shown, the said trip-lever being provided at the end thereof farthest from the post with a pin 34, working through an opening 35 in the table for the purpose of engaging each arm separately to cause the arm to be sprung downwardly an extent sufficient to release it from the catch, whereupon the arm is carried to the left by the force of the spring 31, cooperating therewith, as already explained.

The operation is clearly illustrated in Fig. 7, and it should be explained that the end of the trip-lever nearest the post is in movable connection with the upper end of a vertically-movable rod 36, having its lower end in similar connection with the shorter arm 36<sup>a</sup> of an angular operating-lever 37, pivotally mounted at 38 on a projection from the side of the upper part of the clamping member 1, hereinbefore referred to. The lower end of the said lever 37 is provided with a finger-piece 39, and it is simply necessary to press downwardly upon such end to effect the desired operation of the trip-lever, as will be readily understood. After release of pressure from the operating-lever the weight of the parts serves to again elevate the trip-lever, whereupon the force of the actuating-springs for the arms serves then to move the latter a distance sufficient to cause the next one in order to take the place of the one that preceded it, and so on. The opening 14 in the extension 13 of the plate 11 serves as a guide for the working movements of said vertical rod 36, and the upper part of this rod passes through an opening 40 in the table 27.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A music-leaf turner comprising a post, a series of brackets rigidly mounted thereon in superposed order, a series of leaf-carrying arms mounted upon the brackets, means for engaging the arms collectively on one side of the post, means for successively disengaging the arms, and means for turning each arm to the other side of the post when thus disengaged.

2. A music-leaf turner comprising a post, a series of brackets rigidly mounted thereon in superposed order, a series of leaf-carrying arms pivotally mounted upon the brackets, means for engaging the arms collectively on one side of the post, means for successively disengaging the arms, and a spring for turning each arm to the other side of the post when thus disengaged.

3. A music-leaf turner comprising a post, a series of brackets mounted thereon in superposed order, a series of leaf-carrying arms mounted upon the brackets, means for engaging the arms collectively on one side of the post, means for successively disengaging the arms, and a spring connected to a part of each bracket and to each arm for turning the lat-



ter to the other side of the post when thus disengaged.

4. A music-leaf turner comprising a post, a clamping device connected thereto, a series of brackets mounted upon the post in superposed order, a series of leaf-carrying arms mounted upon the brackets, a table also mounted upon the post above the uppermost bracket, means on the under side of the table for engaging the arms collectively on one side of the post, a trip-lever mounted upon the table and having a pin for successively disengaging the arms, means for operating said trip-lever; and means for turning each arm to the other side of the post on disengagement thereof.

5. A music-leaf turner comprising a post, a series of duplicate brackets mounted thereon in superposed order, each set of said brackets being connected by a pin, a series of leaf-carrying arms rotatably mounted upon the brackets, means for engaging the arms collectively on one side of the post, means for successively disengaging the same, and a spring connecting each corresponding pin and arm for turning the latter to the other side of the post when the same is disengaged.

6. A music-leaf turner comprising a rectangular post, a series of brackets shaped to fit the same and mounted thereon in superposed order, a series of leaf-carrying arms mounted upon the brackets, a table also mounted upon the post above the uppermost bracket,

said table being provided on its under side with a stop located beyond and to one side of the post, and also provided on the same side with a catch located beyond the other side of the post, said catch being adapted for collectively engaging the arms, a trip-lever mounted upon the table and having a pin for successively disengaging the arms, means for operating said lever, and means for turning each arm toward and against the stop when the same is disengaged.

7. A music-leaf turner comprising a post, a plate mounted thereon and having a lateral extension provided with an opening, a series of brackets also mounted thereon in superposed order, a series of leaf-carrying arms mounted upon the brackets, means for engaging the arms collectively on one side of the post, a trip-lever having a pin for successively disengaging the arms, a hand-operated lever, an actuating-rod connecting said last-named lever with the trip-lever and working in the said opening, and means connecting the brackets and arms for turning each arm to the other side of the post as the same is disengaged.

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

JOSEPH GEORGE ANSON.

Witnesses:

THOMAS JAMES MANSFIELD,  
JOSEPH MILLER.