

No. 792,159.

PATENTED JUNE 13, 1905.

W. L. O'MALLEY.
MUSIC LEAF TURNER.

APPLICATION FILED OCT. 18, 1904.

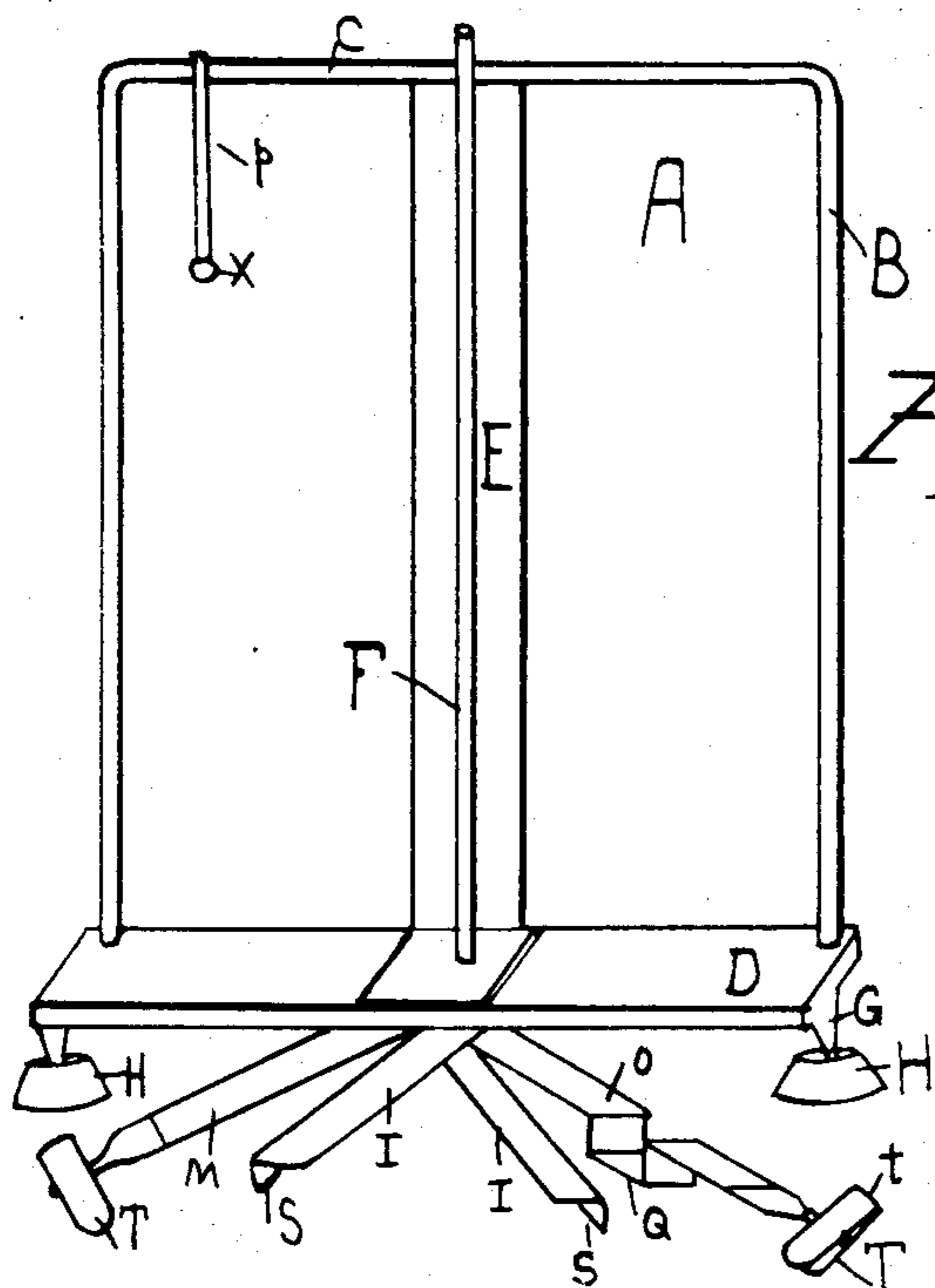


Fig. 1.

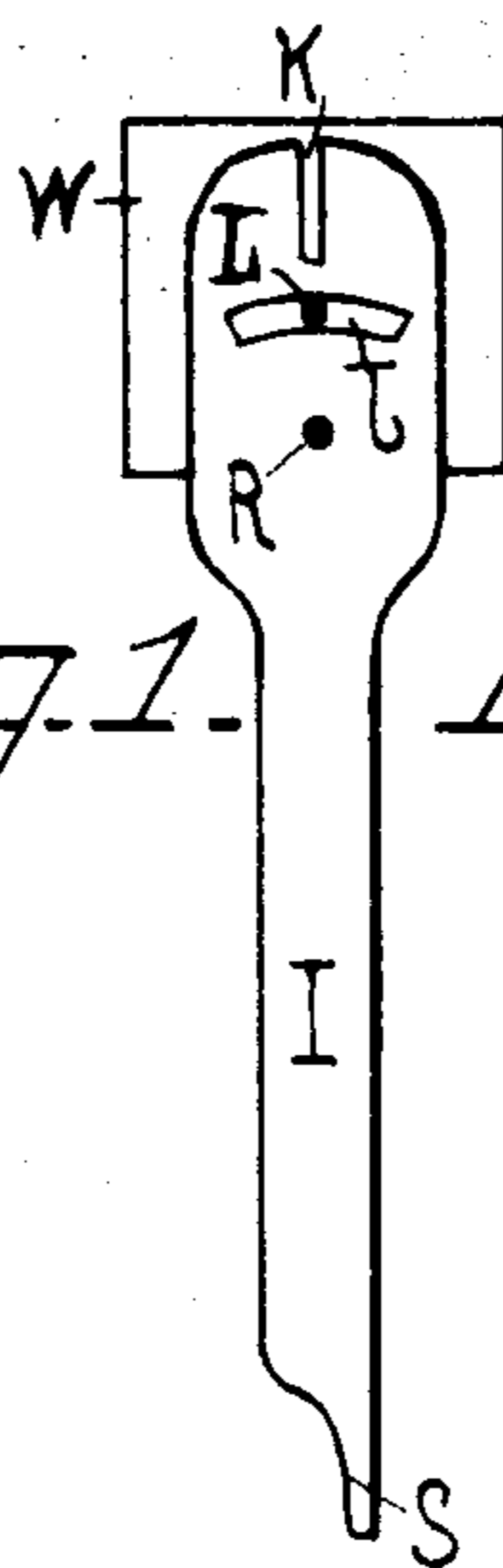


Fig. 2.

Fig. 3.



Fig. 5.

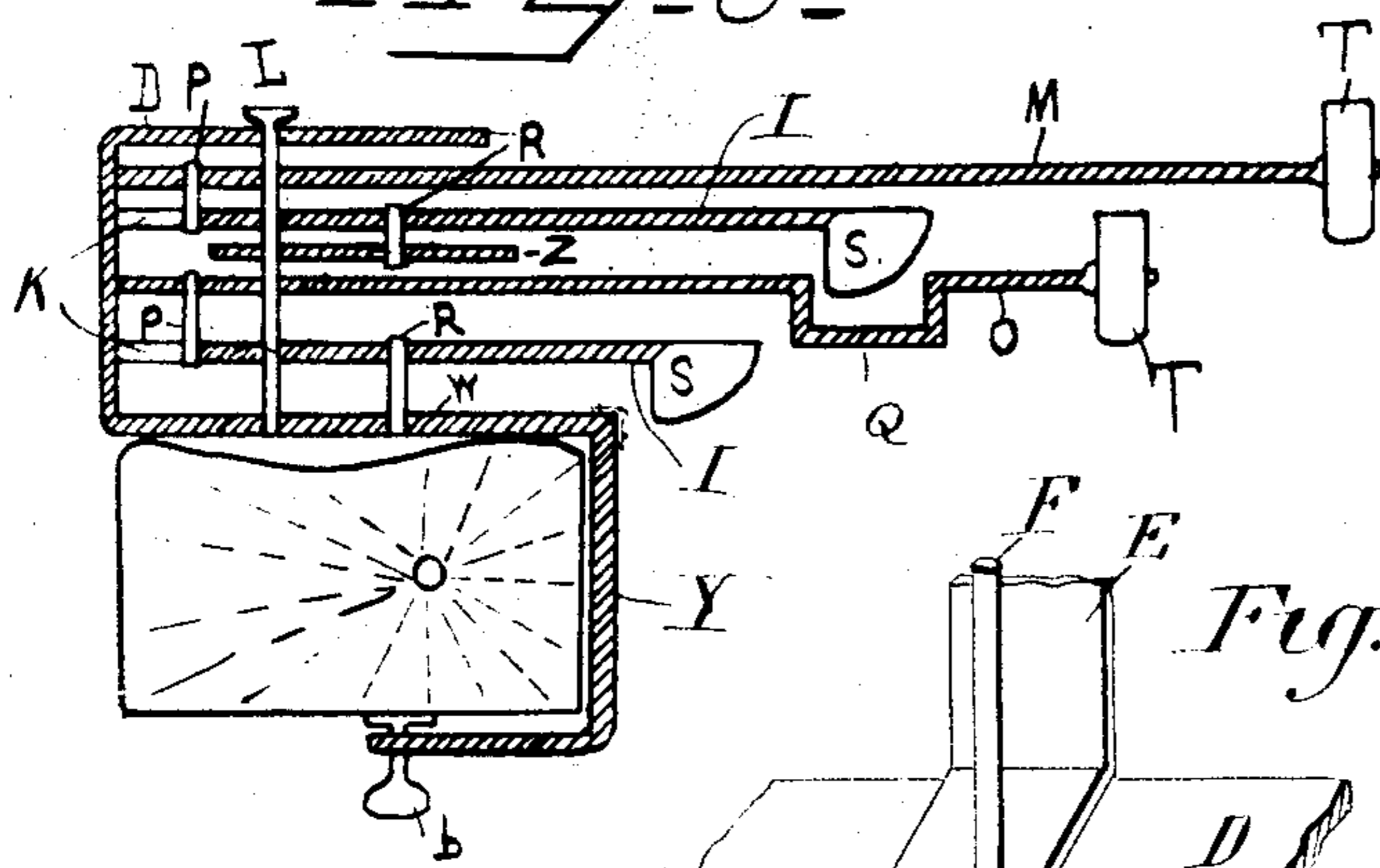


Fig. 7.

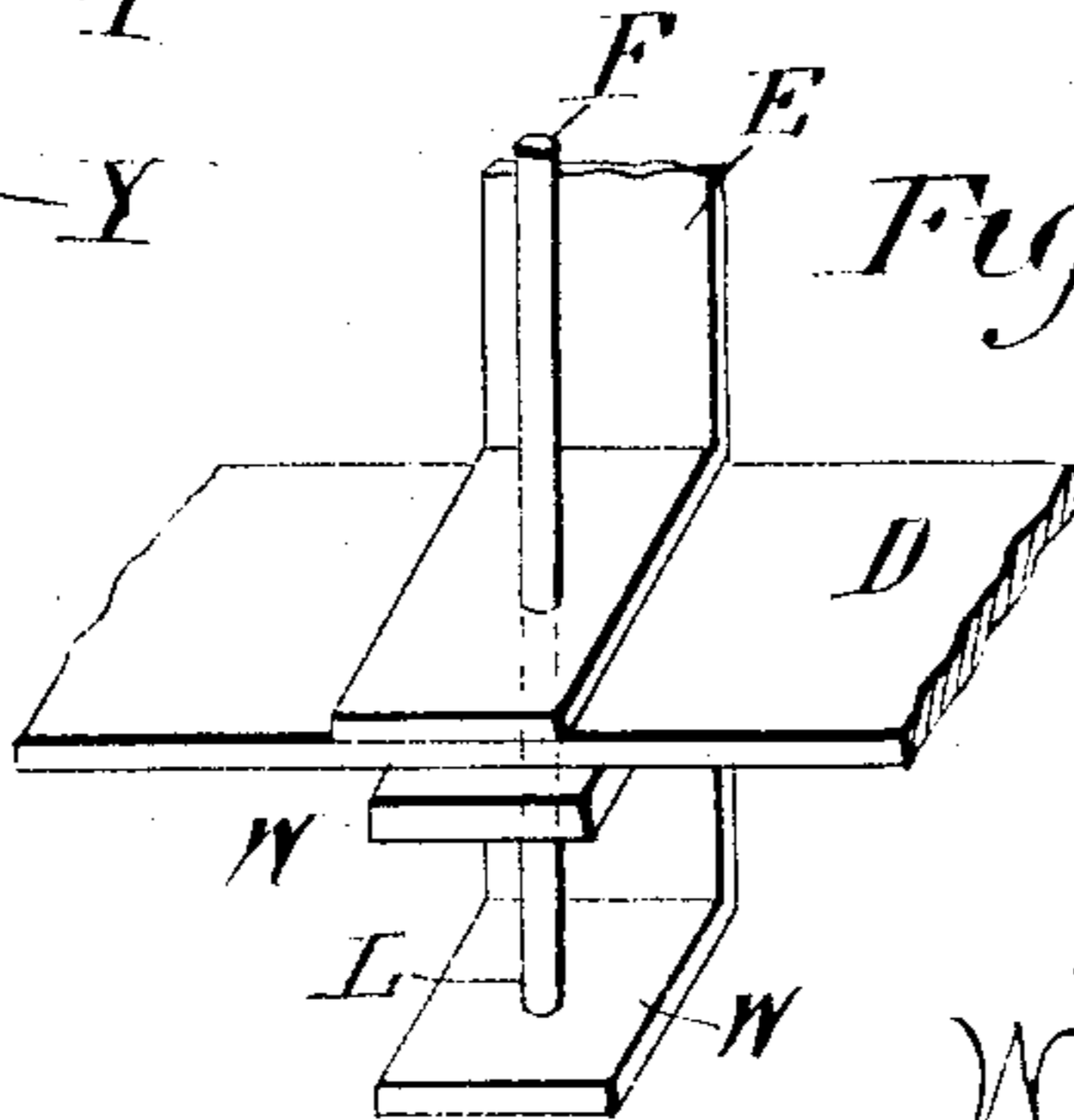


Fig. 6.



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MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 792,159, dated June 13, 1905.

Application filed October 18, 1904. Serial No. 228,909.

To all whom it may concern:

Be it known that I, WILLIAM L. O'MALLEY, a citizen of the United States, residing in the city of Davenport, in the county of Scott and State of Iowa, 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, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to leaf-turners for music; and one of the objects is to provide a rack for holding the music which may be readily and adjustably attached to any music-rack or piano and easily removed therefrom and will hold the cover or leaves of the music not in use against the rack.

Another object is to provide means for turning each leaf of the music by separate levers with extension-arms and re-turning all the leaves either separately or together.

For a full and clear understanding of the mode of construction and the manner of operating the same attention is called to the following specification, when taken in connection with the drawings accompanying the same and forming a part hereof.

Figure 1 is a perspective view of the device, taken from the side on which the music rests and set in nearly a perpendicular position. Fig. 2 is a plan view of the lever for operating the arm to turn the leaf. Fig. 3 is a plan view of the lever shown in Fig. 2 with the extension-arm attached and turned to an angle. Fig. 4 is a side view of Fig. 2. Fig. 5 is a side view of two levers and arms and shows another mode of removably attaching the device to a piano or music-rack or other support. Fig. 6 is a vertical section of one of the feet of the rest. Fig. 7 shows the platform cut away and the base-plate with the levers and the arms of Fig. 1 removed.

Like letters of reference denote corresponding parts in each of the drawings.

Referring to the drawings, A designates the body of the turner, which consists of a frame B, preferably of wire bent into the form of a parallelogram, with the ends of the wire fas-

tened in a platform or plate D, and a stay-plate E, secured to the cross-bar C of the frame and to the platform D, which also serves as a plate against which the music rests and against which it is held. There is also secured in the platform D and through the end of the plate E a bar F, which stands out at a short space from the plate E, and between the rod F and plate E the music is placed, with the center of the sheet back of the bar F.

For the purpose of removably attaching the turner to a piano or other music-holder the ends of the platform D are provided with pins G, set at nearly right angles to the platform D, but preferably near the forward edge, and these engage the top of a hollow rubber foot H. In this manner the frame, with the rubbers attached, is set in the base of the music-rest or piano and the air forced from the hollow rubber foot H, which will make them stick fast by suction or air-pressure to the rest without injuring the same and will hold the turner steadily thereon. Another mode of removably attaching the turner to its support is by a clamp, (shown in Fig. 5,) which preferably consists in rigidly attaching to the base-plate W a rectangular plate Y and providing the end with a thumb-screw Z. If the shape to which it is to be attached be irregular, then the clamp may be made of spring-steel or other flexible material.

For the purpose of turning the leaves of the music there is pivoted beneath the platform D to the base W a lever I. (Shown in Figs. 2 and 3.) This lever is provided with a crescent-shaped slot J and another straight slot K, preferably set at right angles to each other, but which do not unite or open into each other. The slot K may be closed at the top; but for the purpose of more easily putting the parts together it is left open. Through the slot J passes a pin or post L, which is rigidly fixed in the base-plate W, and to the upper end of it is pivotally attached an arm M. Upon the under side, near the inner end of the arm M, is fastened a pin P, which engages with the slot K, and as the arm is turned the pin moves up and down in the slot K. The lever I is pivoted to the base W by a pin R, and at

the outer end it is provided with a thumb-piece S. To the outer end of the arm M is attached a clasp T, which may consist of two plates *t*, separated in the rear by a spring, (not shown,) so that the clasp will engage the music; but any other convenient means for grasping the music may be attached to the arm M and still be in accordance and harmony with the device.

There may be one or a plurality of the levers I, with their extension-arms M. I have shown only two. These are substantially alike, with the exception that one of the arms is either cut away or bent out at Q, so that the turning of the arm will not interfere or come in contact with the thumb-piece S of the lever I while passing it. These levers and arms are all pivoted between plate D and the base-plate W, and when there are more than one lever or arm then there is interposed a plate Z, to which the upper lever is pivoted and which is rigidly attached to the post L at one end. The lower lever M is pivoted in the base-plate W. If there were several of these levers, then there should be interposed a plate Z between each one of the levers, to which the lever above should be pivoted.

For the purpose of holding the cover of the music or an unused leaf on the rack and not allowing it to be turned when the leaves are turned back there is fastened to the top piece C of the frame a cord *p* and to the other end of the cord a ball or weight X, which rests upon the cover and holds it against the frame.

The manner of operating my device is substantially as follows: The rubbers H are placed in the proper position on the piano, and the air having been exhausted from them they are held by suction or air-pressure. Then the frame A is set, with the pins G engaging the tops of the rubbers, and in this manner the frame is removably held upon the piano and prevented from slipping or moving in any direction. The music is then placed between the plate E and the bar F and the clasp T set to engage the lower edge of one of the leaves of the music, and if there be more than one then the clasp T on another arm engages the next leaf, and so on. The operator then grasps the lower or shorter lever by the thumb-piece S and turns it in one direction, and as the lever is pivoted by the pivot-pin R to the base-plate W and as the post L passes through the slot J in the lever I and is rigidly fixed in the base-plate W when the outer end of the lever is turned in one direction the inner end, in which is the slot J, will be turned in the opposite direction in the arc of a circle, with the post L in the slot J and the slot oscillating about the post. Further, as the arm M is pivoted to the fixed post L and the pin P is fixed to the arm M and engages the slot K when the lever is turned it will engage the pin P in the slot K and force the arm M to one side, and the pin P will travel backward

and forward in the slot K. Thus by turning the lever I the leaf of music attached to the arm M will be turned in the direction of the oscillation of the lever, and the post L and the pin R will always remain in the same plane and in the same relation to each other.

It will be seen that as the distance between the post L and the pin R is longer than the distance between the post L and the pin P it will be necessary to move the lever only a short space to carry the arm M from side to side. It will also be seen since one of the arms M is bent at Q when it is turned it will not come in contact with the thumb-piece S on the lever I or in any manner interfere with its individual movement.

It is manifest that the details of construction may be changed by a mechanic skilled in the art to which it appertains within a wide range without departing from the spirit of my invention.

Having now described my invention, what I claim is—

1. In a device of the character described, a base-plate, a lever pivoted to the base-plate and provided with a slot, a post fixed in said base-plate and passing through said slot, an arm pivoted to the post, connection between the arm and the lever, and means connected with the arm for engaging a leaf of the music-sheet.

2. In a device of the character described, a base-plate, a lever pivoted to the base-plate and provided with a slot, a post fixed in the base-plate and passing through the slot in the lever, an arm pivoted to the post, a pin in the arm and engaging a second slot in the lever, and means attached to the arm for engaging a leaf of a music-sheet.

3. In a device of the character described, a frame provided with a platform D for holding the music, means for removably attaching the frame to a support, a base-plate connected with the platform of the frame, a lever pivoted to the base-plate and provided with a slot, a post secured in the base-plate and passing through the slot, an arm pivoted to said post, connection between the arm and the lever, and means connected with the arm for engaging the leaf of a music-sheet.

4. In a device of the character described, a frame for holding the music, hollow rubber feet held on a support by air-pressure, pins attached to the frame and adapted to engage the rubber feet, a base-plate connected with the frame, a lever pivoted to the base-plate and provided with a slot, a post fixed in the base-plate and passing through the slot in the lever, an arm pivoted to the post, connections between the arm and the lever, and means connected with the arm for engaging a leaf of a music-sheet.

5. In a device of the character described, a frame consisting of a platform, a rod bent in rectangular form with its ends secured in the

platform, a rod set in the platform near its center, hollow rubber feet for removably attaching the frame to the support, pins in the platform engaging the rubber feet, a base-plate connected with said frame, a lever pivoted to the base-plate and provided with a slot, a post fixed in said base-plate and passing through said slot, an arm pivoted to the post, connection between the arm and the le-

ver, and means attached to the arm for engaging a leaf of a music-sheet.

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

WM. L. O'MALLEY.

Witnesses:

M. J. BURKE,

J. J. O'MALLEY.