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2,528,289

MUSIC LEAF TURNER

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Fig. 1.

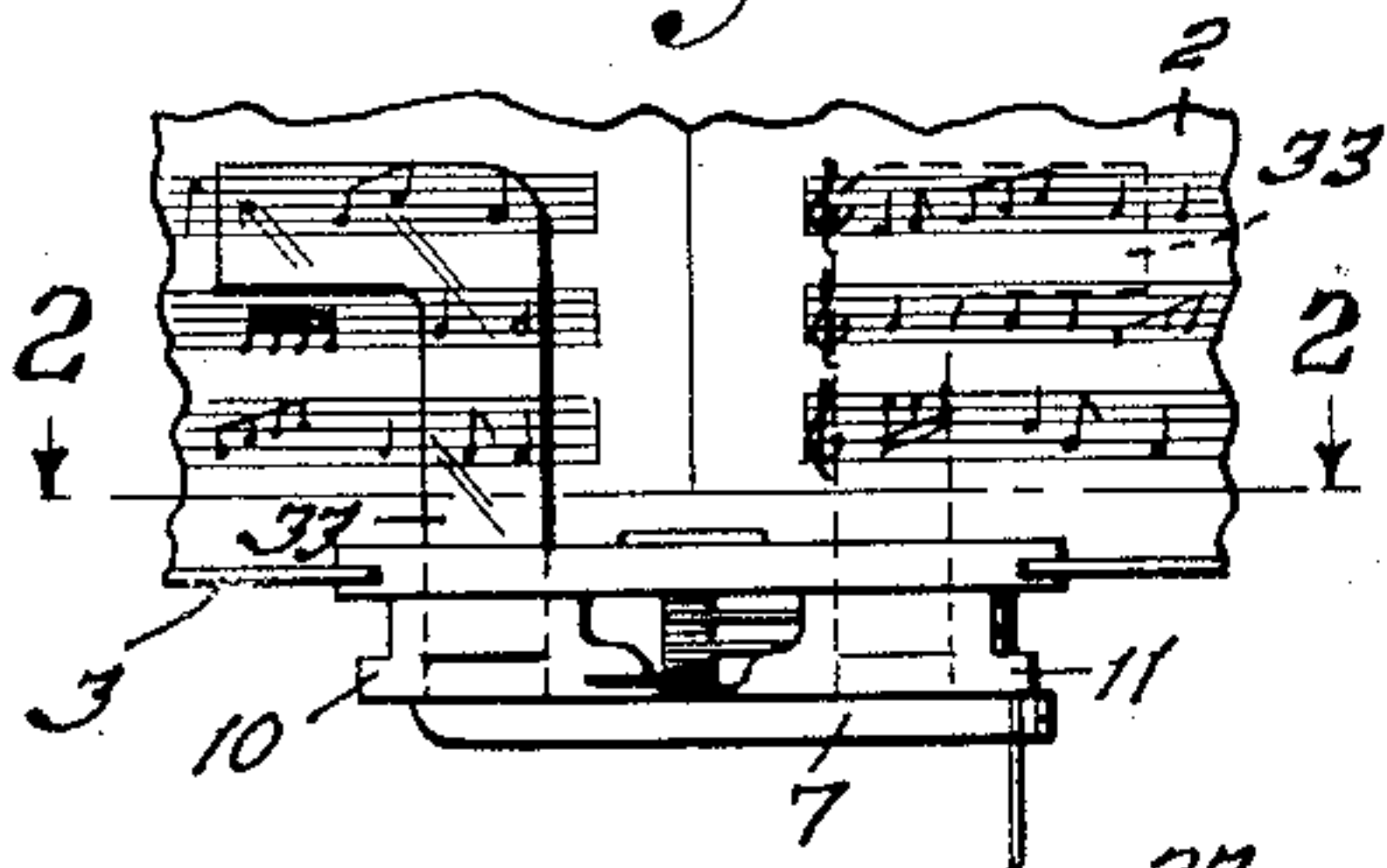


Fig. 2.

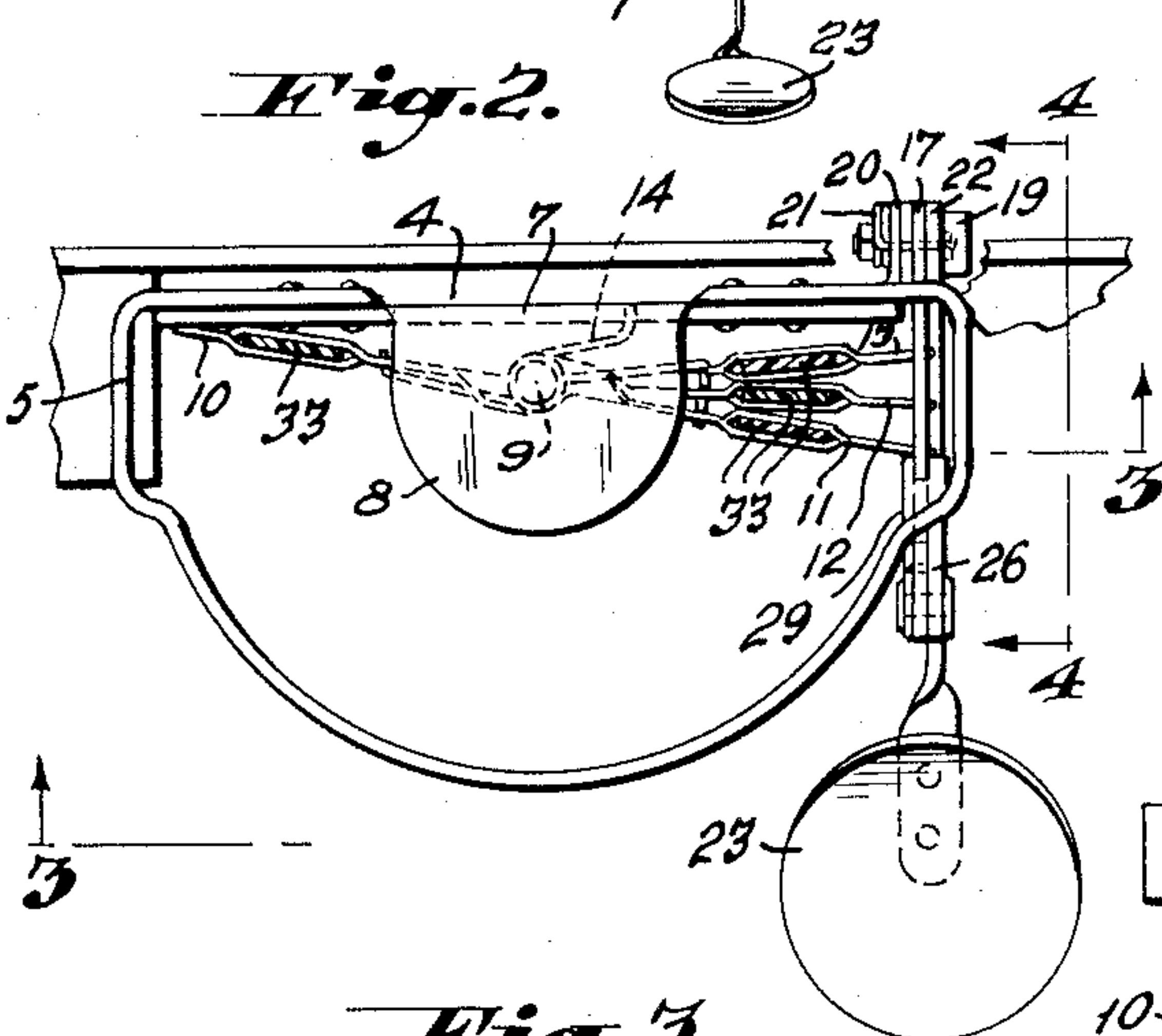


Fig. 5.

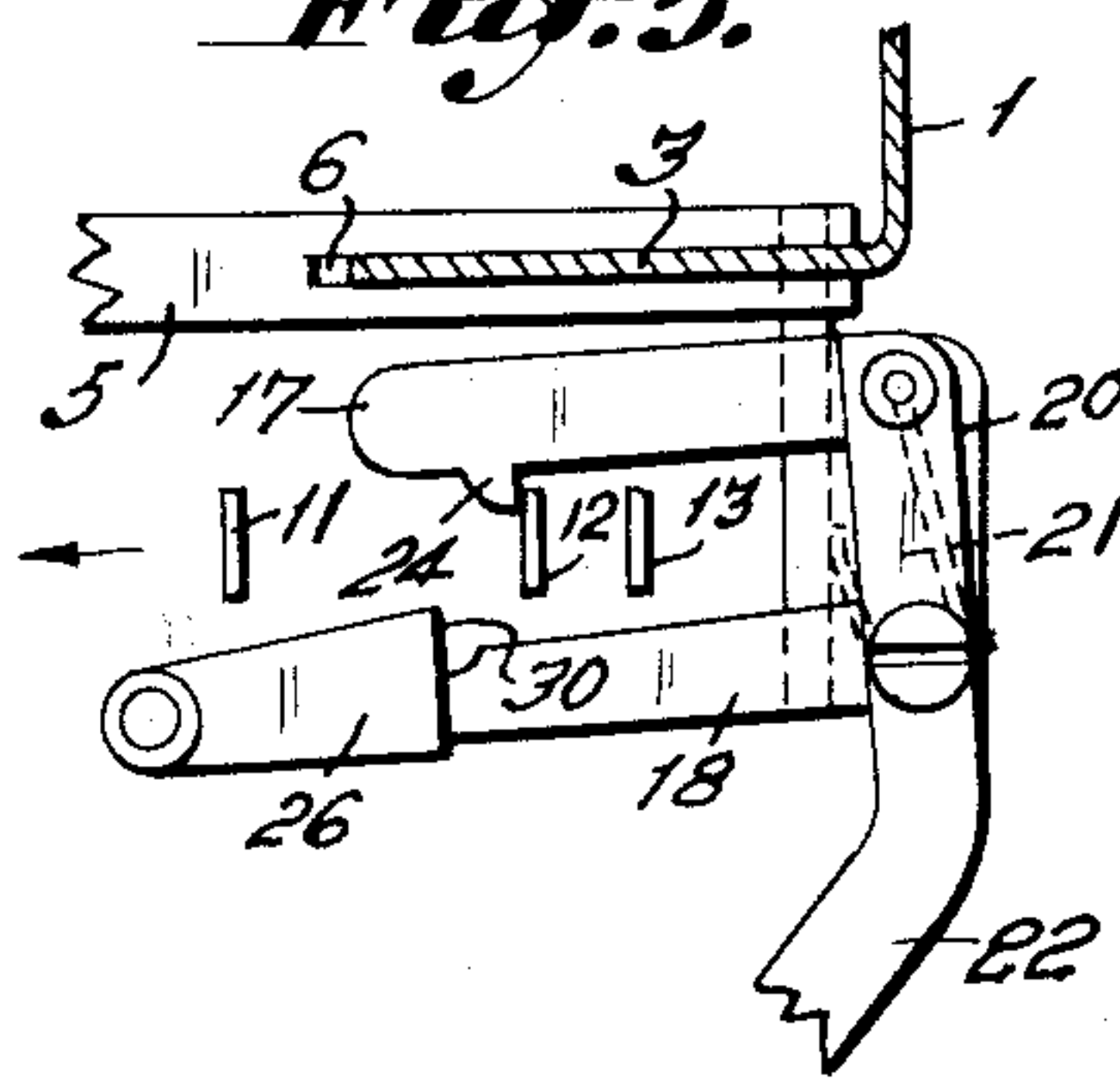


Fig. 6.

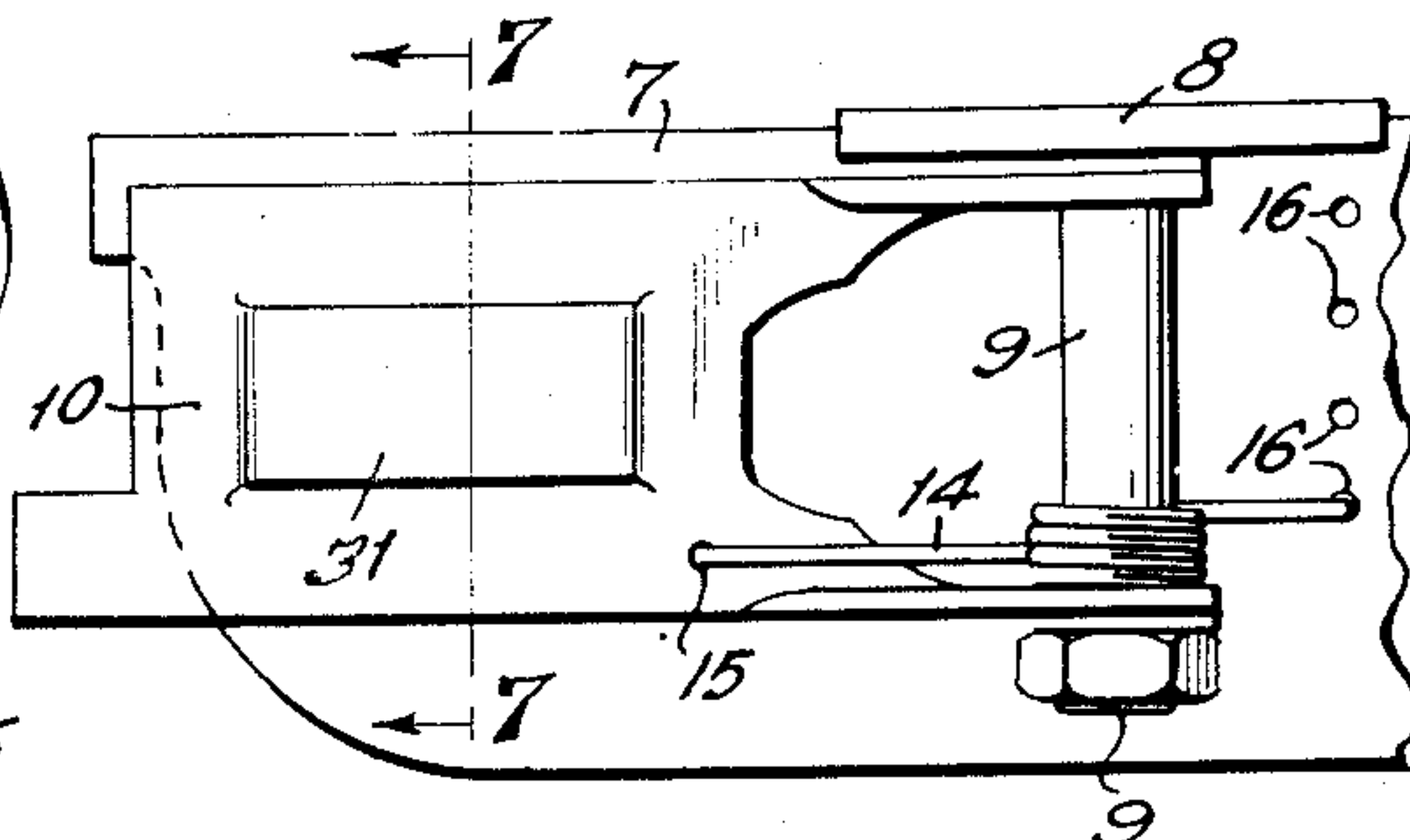


Fig. 3.

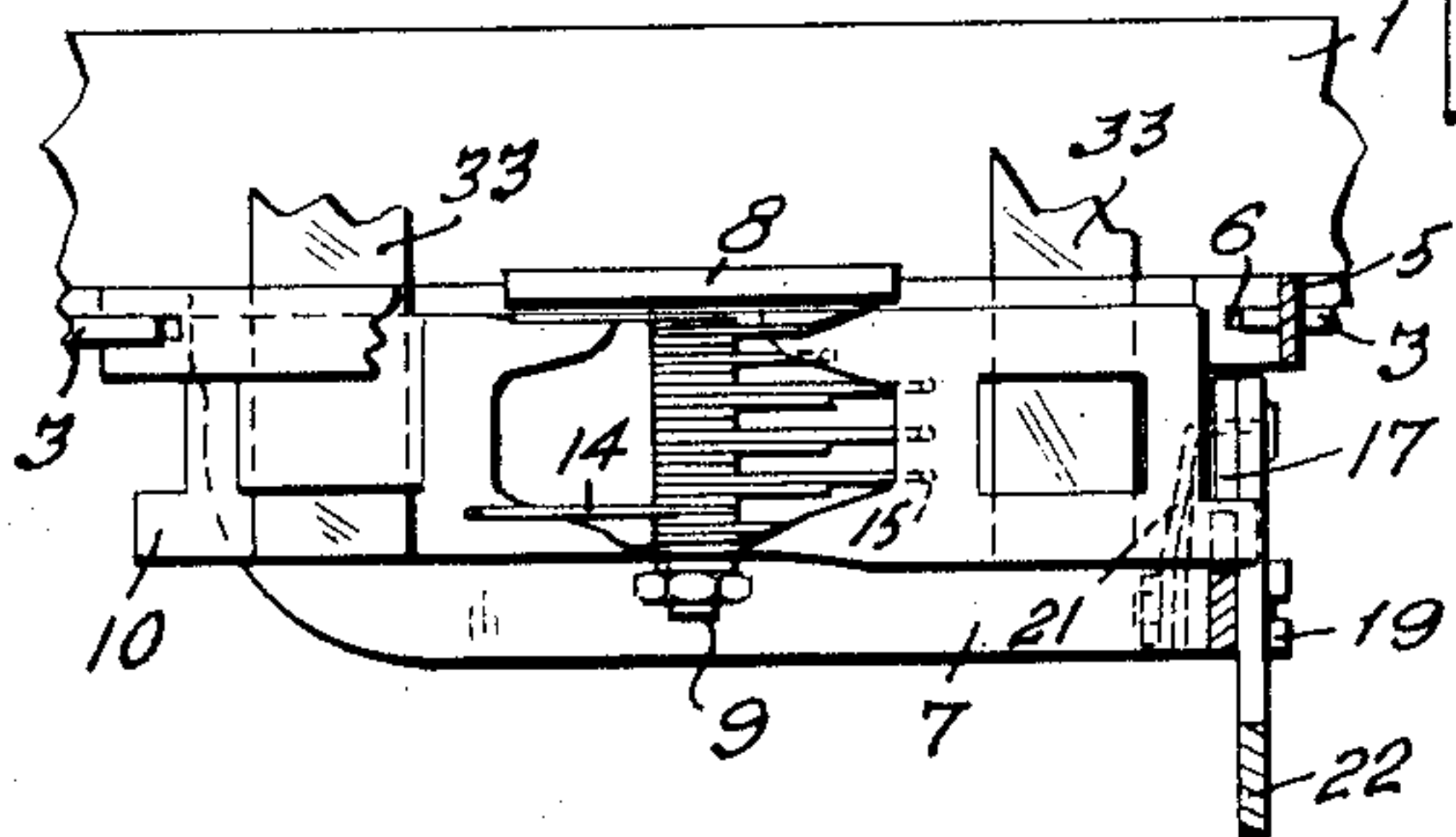


Fig. 7.

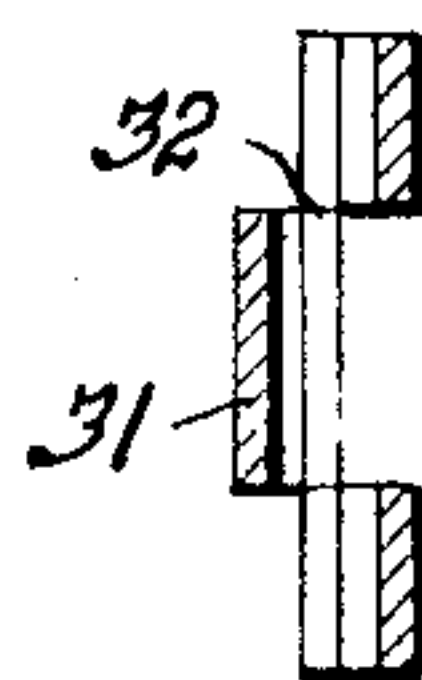


Fig. 4.

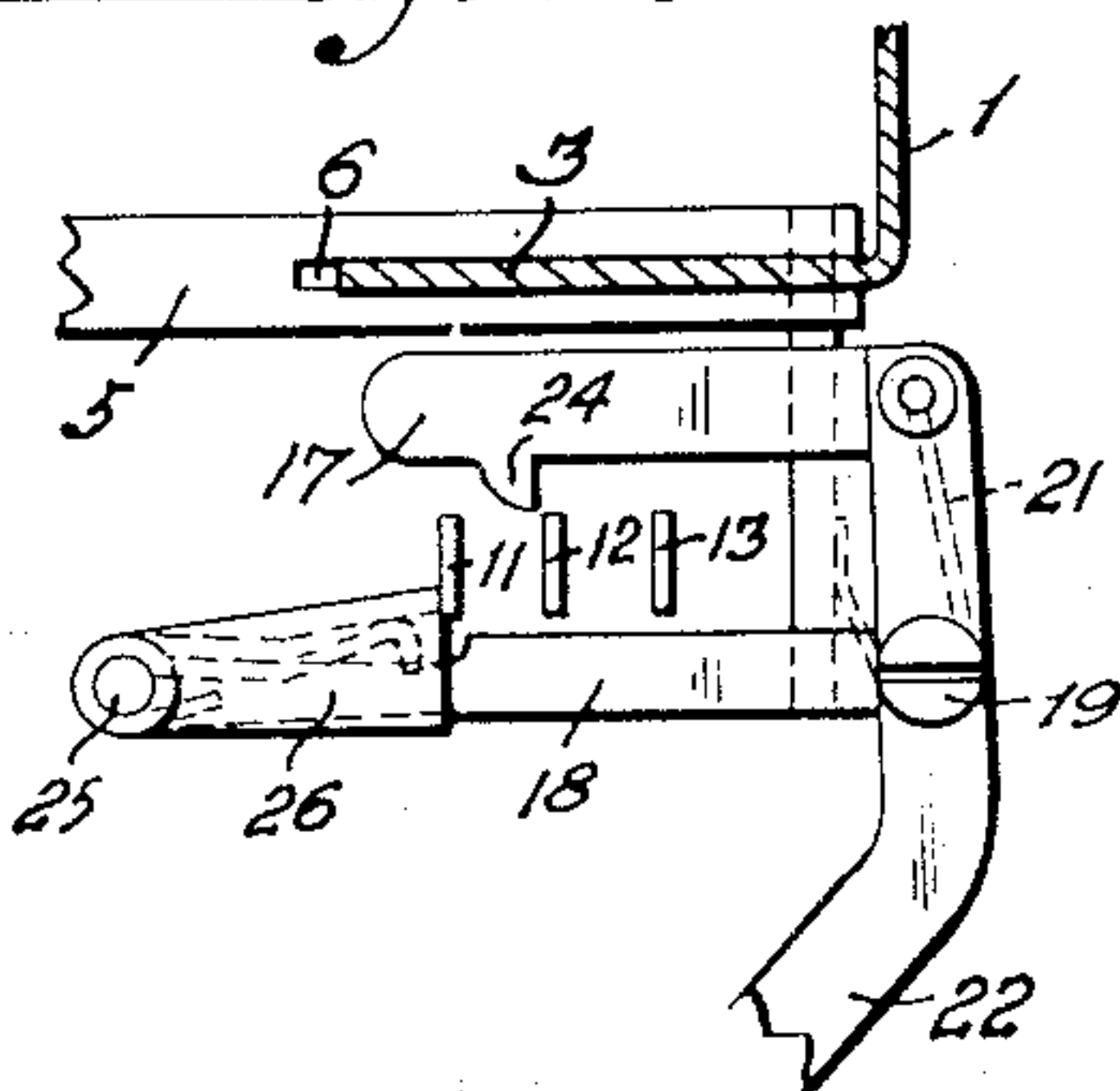
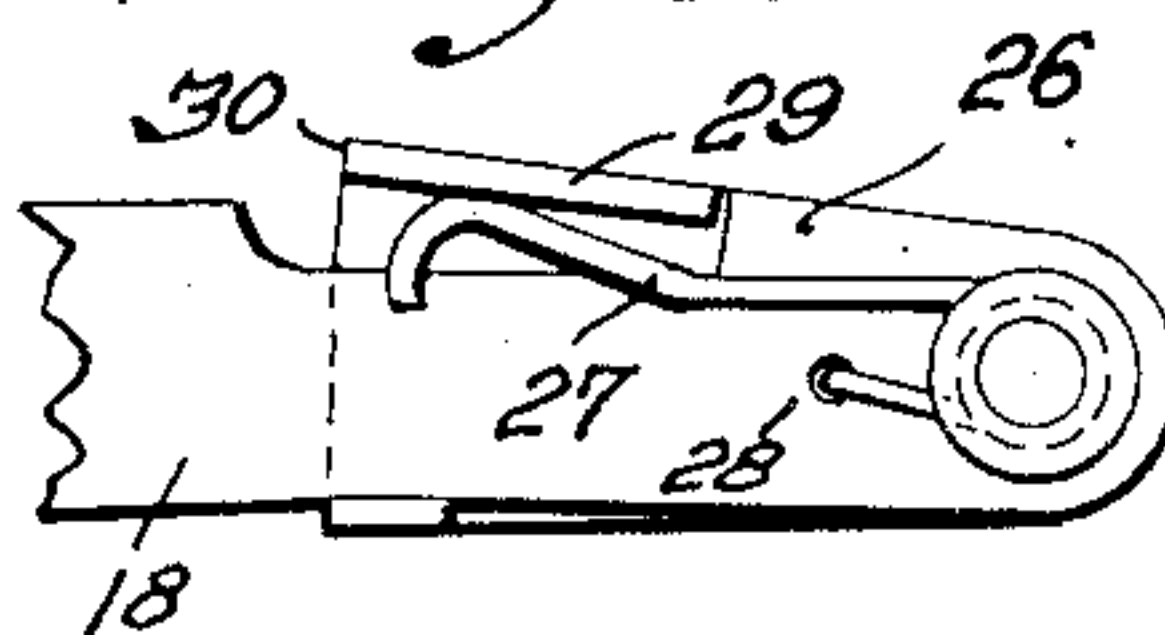


Fig. 8.



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MUSIC-LEAF TURNER

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3 Claims. (Cl. 84—490)

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The present invention refers to a music-leaf turner consisting of a number of turning levers operated by springs and pivoted on a vertical pin, an element by which these levers are locked in a cocked position and a releasing appliance acting on this element, by the aid of which appliance one lever at a time is released from its cocked position so that the lever, while turning by the action of its spring, turns a leaf of music.

Typical for this invention is that the element locking the turning levers in a cocked position consists of a forked lever operated by a spring and pivoted on a pin the branches of the fork of which lever are furnished with stops of which one locks the lever to be turned next and the other retains the other levers in a cocked position while allowing the lever next the one to be turned to move into the place of the turned lever after it has been released by pressure on the releasing appliance.

This invention is particularly described in and by the following statement and the accompanying drawing, showing by way of example one construction of it, in which drawing—

Figure 1 is a front view of the music-leaf turner fixed on to a music-stand;

Figure 2 shows the appliance seen from above and for the sake of distinctness drawn to a larger scale than the previous figure;

Figure 3 shows a section along the line 3—3 in Figure 2;

Figure 4 shows a section along the line 4—4 in Figure 2;

Figure 5 shows the same as Figure 4 but in another position;

Figure 6 shows a turning lever fitted on to the vertical pin and operated by a spring, for the sake of distinctness drawn to a larger scale than in Figure 3;

Figure 7 shows a section along the line 7—7 in Figure 6;

Figure 8 shows another part drawn to a larger scale than in Figures 4 and 5 and seen from the opposite side.

In the drawing, 1 is a support against which the music-book 2 rests, 3 is a rail supporting the music-book from below, which rail is furnished with an opening 4, Figure 2, for the appliance according to the invention. The appliance is fitted into the opening 4 in such a way that the side edges of the opening enter into slits 6 in the arched part 5 of the appliance. One part of the rear wall 7 of the appliance is bent forwards to form a bracket 8 to which a pin 9 is fixed. On this pin some turning levers 10—13

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are pivoted. Each of these levers is operated by a spring 14 turned round pin 9, the one end of which spring is inserted into a hole 15 in the turning lever and the other in a hole 16 made for each spring in the rear wall 7 of the frame.

To lock the turning levers 10—13 in a cocked position there is a forked lever 17—18, which by the aid of screws, pins or such like 19 is pivoted on to a bracket 20 at the back of the rear wall 7 so as to revolve in the vertical plane. The forked lever 17—18 is operated by a spring 21, which tends to keep the forked lever in a horizontal position. For this purpose the one end of the spring is attached to the forked lever and the other to bracket 20. The upper branch 17 of the forked lever has an extension 22, bent downwards as an arch, to the lower end of which is fixed a contact disc 23 in such a way that a light pressure downwards sets the appliance working.

The upper branch 17 of the forked lever 17—18 is furnished with a stop 24 directed towards branch 18. At a point 25 of the lower branch a plate 26 is pivoted, the upper and lower edges of which are bent towards branch 18 and thus form stops preventing the plate from turning round point 25. The plate 26 is operated by a spring 27, the one end of which is inserted into a hole 28, Figure 8, in branch 18, while the other end rests from below against the upper edge 29 of plate 26, which edge is turned towards branch 18. The point of this upper edge is marked 30.

The centre 31 of the outer part of the turning levers 10, 11, 12 and 13 is split at the top and bottom edges and pressed to the side in such a way that, seen from above, there are formed slits into which L-shaped turning arms 33, Figure 1, made of celluloid or some other transparent material, can be inserted.

When the appliance is being used the levers 10—13 are cocked, in the case illustrated in Figure 2, by being turned from left to right, i. e. in a direction opposite to that shown in the figure by drawn arrows. In this way the point of the first lever 10 comes behind the upper edge 30 of part 26 and keeps the other levers in a cocked position. When the leaves of the music-book are turned in such a way that the leaf to be turned first is on the left side of the opening, the contact disc 23 is pressed, at which the forked lever 17—18 turns round pin 19 from the position shown in Figure 4 to that shown in Figure 5. When the obstacle represented by edge 30 of part 26 is removed out of the way of turning lever 10, being the first to be turned, it turns by the action of its spring 14 from right to left, i. e.

into the position shown in Figure 2. In this position a turning arm 33, Figure 1, made of celluloid or another transparent material is inserted. When, after this, all the other three turning arms are inserted in the same way in their places, all the levers 10—11 and turning arms together with the music-leaves are returned into a cocked position.

When the contact disc 23 is pressed the first time after this, turning lever 10 turns and with it arm 33 carrying with it the first music leaf to be turned. In exactly the same manner the other music leaves are turned in due order.

When studying Figures 4 and 5 it will be noticed that when the forked lever is pressed downwards, stop 24 keeps the other levers in position, except the one to be turned next, which is released from its cocked position as soon as point 30 of the upper edge of part 26 has moved out of its way.

Spring 27 is to be made soft enough not to prevent part 26 from turning when the turning arms are turned into cocked position.

The construction shown in the drawing as an example shows only three turning levers. It is, however, evident that the number of levers can be considerably increased. Also in other respects the actual practical construction of the appliance can vary considerably within the limits of the invention. Thus the attachment of the appliance can be executed in different ways from that which the example of the drawing shows. The appliance can easily be fixed on to the music-stand of a piano, grand-piano or other musical instrument.

I claim:

1. A music leaf turner, comprising the combination of a base adapted for attachment to a music support and having a pivot pin thereon arranged to extend vertically when the base is attached to said music support, a plurality of turning levers mounted for rotation on said pivot pin from one side of the music support to the other, biasing springs interposed between said base and the respective turning levers so as to urge said levers towards one side of the music support, and latching means on said base for retaining the turning levers on the opposite side of the music support and arranged to engage the foremost turning lever, said latching means having a retaining member arranged to engage the turning lever immediately behind the foremost turning lever when actuated to release said foremost lever, with upright leaf turning arms having horizontal offset portions mounted on said turning levers so as to bear against the leaves of music placed upon the music support and sweep the respective leaves over to the first mentioned side of the music support when the individual turning levers are actuated by said biasing springs.

2. A music leaf turner, comprising the combination of a base adapted for attachment to a music support and having a pivot pin thereon

arranged to extend vertically when the base is attached to said music support, a plurality of turning levers mounted for rotation on said pivot pin from one side of the music support to the other, biasing springs interposed between said base and the respective turning levers so as to urge said levers towards one side of the music support, and latching means on said base for retaining the turning levers on the opposite side of the music support and arranged to engage the foremost turning lever, said latching means having a retaining member arranged to engage the turning lever immediately behind the foremost turning lever when actuated to release said foremost lever, with transparent upright leaf turning arms having horizontal offset portions mounted on said turning levers so as to bear against the leaves of music placed upon the music support and sweep the respective leaves over to the first mentioned side of the music support when the individual turning levers are actuated by said biasing springs.

3. A music leaf turner, comprising in combination, a base adapted for attachment to a music support and having a pivot pin thereon arranged to extend vertically when the base is attached to said music support, a plurality of turning levers mounted for rotation on said pivot pin from one side of the music support to the other, each of said levers having a portion intermediate of its top and bottom edges offset to form, with the main body of the lever, a split opening, biasing springs interposed between said base and the respective turning levers so as to urge said levers towards one side of the music support, latching means on said base for retaining the turning levers on the opposite side of the music support and arranged to engage the foremost turning lever, said latching means having a retaining member arranged to engage the turning lever immediately behind the foremost turning lever when actuated to release said foremost lever, and L-shaped leaf turning arms having one limb thereof adapted for insertion into each of said split openings and, when so inserted, to extend in an upright position to engage behind a leaf of music on said support with the other limb horizontally behind said leaf, so as to move the leaf over to the first mentioned side of the music support when the respective turning lever is actuated by its biasing spring.

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