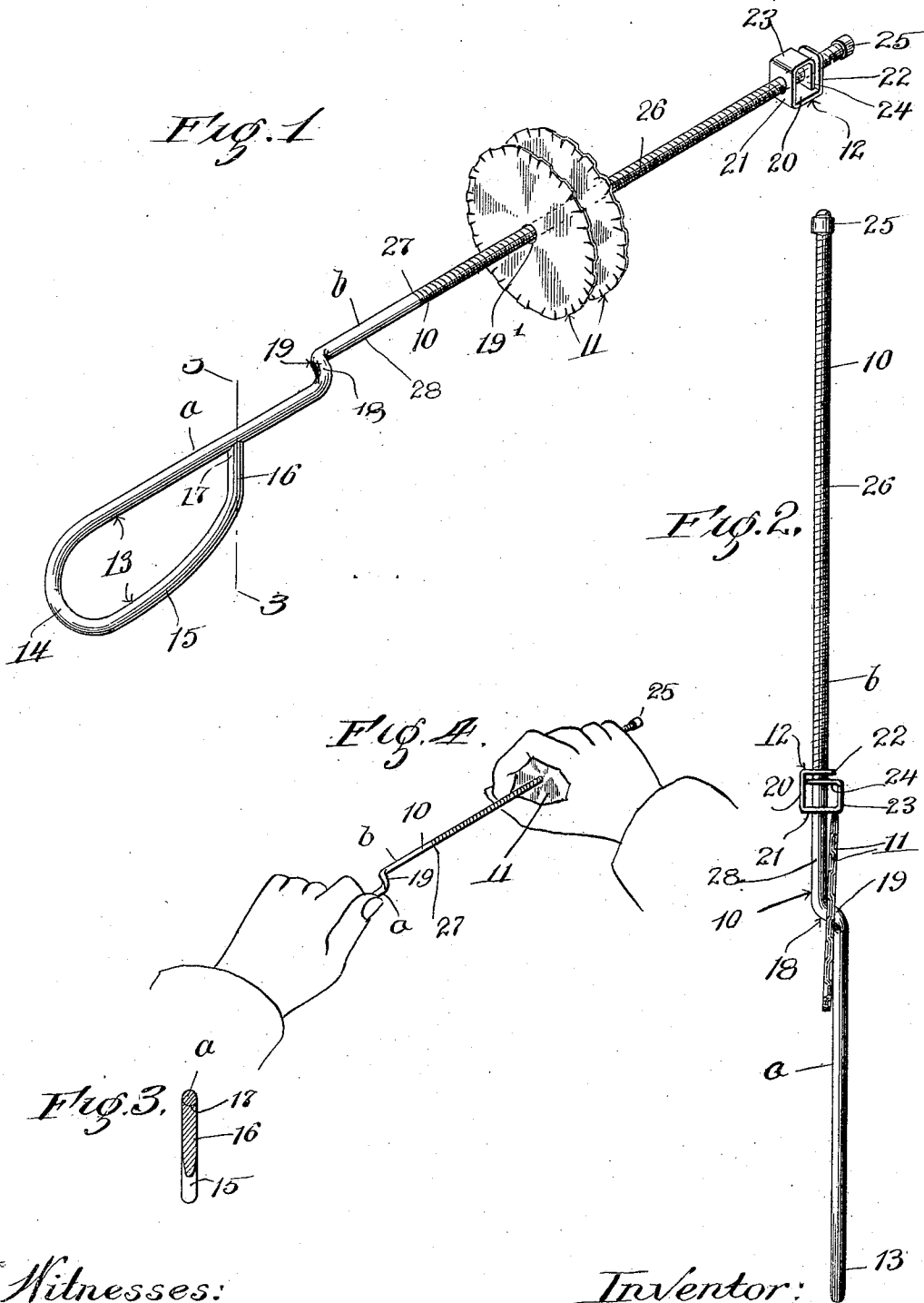


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 DEVICE FOR PRODUCING NOISE.  
 APPLICATION FILED OCT. 24, 1908.

934,226.

Patented Sept. 14, 1909.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

THEODORE SMITH, OF CHICAGO, ILLINOIS.

DEVICE FOR PRODUCING NOISE.

934,226.

Specification of Letters Patent. Patented Sept. 14, 1909.

Application filed October 24, 1908. Serial No. 459,317.

*To all whom it may concern:*

Be it known that I, THEODORE SMITH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Devices for Producing Noise, of which the following is a specification.

This invention relates to improvements in devices for producing noise.

10 The object of the invention is to provide an improved toy or device of this character by means of which various grades of noises can be produced, varying from a coarse bass noise to a high and shrill one.

15 It further relates to a device for producing a sound imitating that of a tambourine or other similar instrument.

To such end this invention consists in certain novel features of construction and arrangement, a description of which will be found in the following specification and the essential features of which will be more definitely defined in the claims appended hereto.

25 The invention is clearly illustrated in the drawings accompanying this specification, in which—

Figure 1 is a perspective view of a complete device, Fig. 2 is an edge view of the same, illustrating the manner of arranging the movable parts so that the device may be carried conveniently in a pocket, Fig. 3 is a cross section in line 3—3 of Fig. 1 and Fig. 4 is a perspective view illustrating one manner of using the device for producing noise.

As shown in the drawings, the preferred form of the device comprises in general, a serrated rod 10, upon which is slidably mounted one or more disks 11, and a clip 12. The rod 10, is provided with a handle 13, by means of which the device may be supported in one hand and said handle is preferably formed by bending one end of the rod upon itself as at 14, carrying said bend forward as at 15, and bringing the extreme end of the bend up against the rod as at 16. It is preferable to hollow out the end of the upright portion 16, of the handle as at 17, and have said hollow end embrace and fit around the straight portion of the rod 10.

The rod is formed with a crook or reverse bend at the point 18, whereby a short transverse portion 19, is provided between the two straight portions *a—b* of the rod 10. This transverse portion provides a support

for the disks 11, whereby they may be swung into a plane parallel with the straight portions of the rod, and all of the parts may lie in a flat condition as seen in Fig. 2, whereby the entire device may be readily slipped into the pocket.

The disks 11, may be formed of any light material such as tin, sheet metal or the like, and are preferably formed with wave-like peripheries, although this is immaterial to my invention. The disks are provided with perforations 19<sup>1</sup>, of such size that they may be slid freely along the rod 10.

The clip 12, is preferably constructed of some spring material, although this is not important and said clip is bent to form a bottom 20, the ends of which are bent up as at 21, 22, to form sides, the side 21 being bent at a point above the rod, so as to form a top 23, which is parallel with the bottom, and then down to form a side 24, parallel with the sides 21, 22. The sides 21, 22, 24, are perforated to slip over the rod 10, and the device acts as a spring bumper and as a means for producing noise.

Upon the end of the rod 10, opposite the handle is secured a washer 25, which forms a stop and prevents the disks and clip from being accidentally removed from the rod. The clip is preferably formed of heavier material than the disks and for this reason the wear upon it is not so great as that upon the disks. Inasmuch as it is desirable to make the stop 25, of comparatively small diameter, the clip also acts as a means for preventing the disks from slipping over the stop 25, whenever the holes 19<sup>1</sup>, in the disks become worn to such an extent that they are of greater diameter than the stop. In this case the clip which is considerably larger than the stop, effectually prevents the disks from slipping over the end of the rod 10.

The rod is formed with serrations, notches, teeth or other ridges 26, which are preferably formed by screw threading the rod. These serrations or threads run from the point 27, to the end of the rod, and when either the disks or clip is moved along said serrations or screw threads, a noise is produced, the density of which is regulated by the speed with which the disks or clip are moved across the screw threads or the amount of pressure which the person applies between the disks and rod, or between the clip and rod.

In operation, for producing an ordinary

low or high tone of sound, the device may be held in the manner indicated in Fig. 4, and the disks drawn back and forth along the screw threaded portion of the rod. Various forms of noise can be produced by closing the hand around the disks or opening it up, and by moving the disks at a higher or lower speed along the rod or by creating more or less pressure between the disks and rod. A peculiar effect is had when the disks are slid from the screw threaded portion 26, onto the smooth portion 28. A different tone or sound is produced by drawing the clip back and forth upon the screw threaded portion of the rod. If the rod is tilted downward from the handle, the clip may be taken hold of between the fingers and struck against the disk, whereupon a jingling sound is produced. The disks and clip may be allowed to fall upon the stop 25, and the device grasped by the handle and pounded against the inside of an ordinary stiff hat, whereby the effect of a tambourine is produced.

There are a great many other varieties of ways in which this device can be used to produce noise or sound, and it is particularly adapted for use in making loud, shrill sounds which might be interesting at carnivals, baseball and football games and other like places.

I am aware that various modifications and alterations of the details of construction are possible without departing from the spirit of my invention, and I do not therefore desire to limit myself to the exact form shown and described.

I claim as new and desire to secure by Letters Patent:

1. A device for producing noise, comprising a serrated rod having a suitable handle and a disk slidably mounted upon said rod and adapted to be drawn across the serrations of the rod to produce noise.

2. A device for producing noise, comprising a serrated rod, having a handle on one end and a stop upon the other end, and a perforated disk slidably mounted upon said rod and adapted to be drawn across the serrations thereof to produce noise.

3. A device for producing noise, comprising a serrated rod having a suitable handle, a disk slidably mounted upon said rod and adapted to be moved along the serrations to produce noise, and a clip slidably mounted upon the rod and arranged to cooperate with the disks for producing sound.

4. A device for producing noise, comprising a screw threaded rod having a suitable handle, a stop upon one end and a perforated disk slidably mounted upon said screw threaded rod and adapted to be moved along the threads to produce noise.

5. A screw threaded rod, having a reverse curve bend between its ends, a handle on one end and a stop upon the other end, perforated disks slidably mounted upon the screw threaded portion of the rod and adapted to be moved along said screw threads to produce noise or to be placed upon the reverse curve bend, so as to lie parallel with the main body of the rod.

6. A device for producing noise, comprising a screw threaded rod, having a handle on one end and a stop on the other end, a pair of perforated disks slidably mounted upon the screw threaded portion of the rod and a perforated spring clip slidably mounted upon the rod and operating as a spring bumper, between the disks and stop.

7. A device for producing noise, comprising a screw threaded rod, having a handle upon one end, a reverse curve bend between the screw threaded portion and said handle and a stop upon the other end, a pair of perforated disks slidably mounted upon the screw threaded portion of said rod and a spring clip slidably mounted upon said rod and arranged to cooperate with the screw threads and disks to produce noise.

8. A device for producing noise, comprising a round screw-threaded rod, perforated disks slidably mounted upon said screw-threaded rod for producing noise and a handle for the rod, comprising a portion thereof which is bent upon itself with the extreme end extending at right angles to the main portion of the handle, and having its end hollowed out to fit around the main portion of the handle.

9. A device for producing noise, comprising a serrated rod having a suitable handle, a plurality of disks slidably mounted upon said rod and adapted to be drawn across the serrations of the rod to produce noise.

In witness whereof, I have hereunto subscribed my name at Chicago, Cook county, Illinois, this 19th day of October A. D. 1908.

THEODORE SMITH.

Witnesses:

CHARLES O. SHERVEY,  
FANNIE F. RICHARDS.