

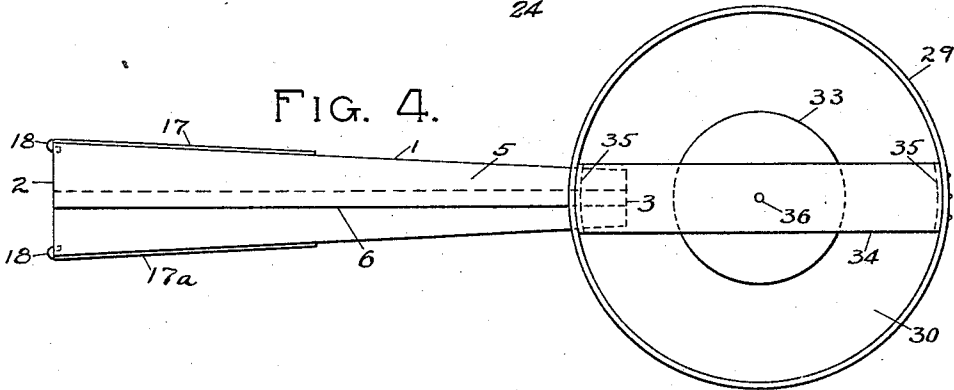
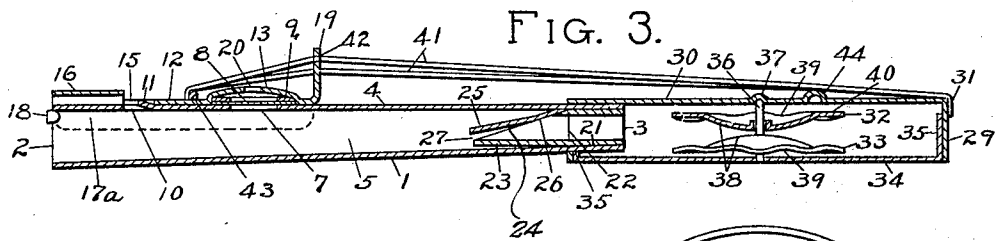
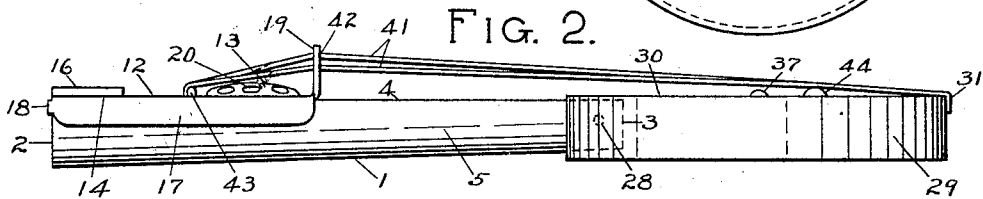
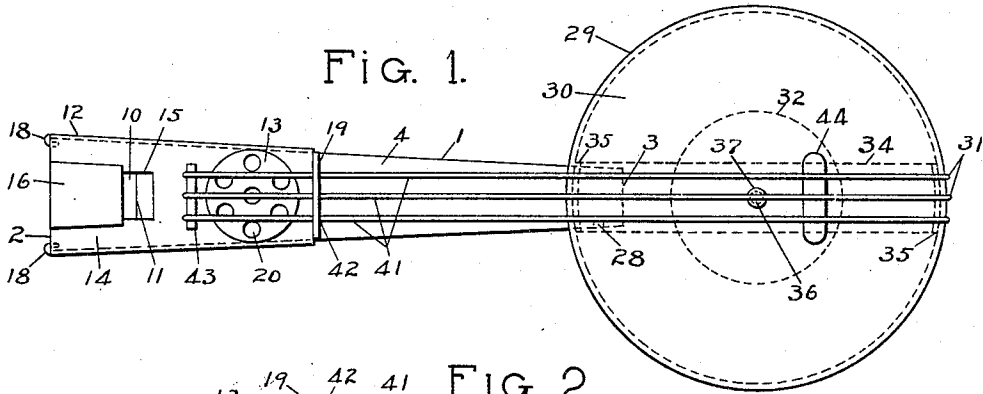
July 10, 1928.

1,676,659

M. J. McINTYRE

MUSICAL TOY OR INSTRUMENT

Original Filed April 18, 1924



WITNESSES.

*Lucian Jackson*  
*Florence E. Klaye*

INVENTOR.

*Michael J. McIntyre*

By *Charles B. Woodhouse*  
 ATTORNEY.

# UNITED STATES PATENT OFFICE.

MICHAEL J. McINTYRE, OF EDEN CENTER, NEW YORK.

## MUSICAL TOY OR INSTRUMENT.

Refiled for abandoned application Serial No. 707,518, filed April 18, 1924. This application filed March 2, 1927. Serial No. 172,029.

This application is a refiled of my abandoned application filed April 18, 1924, Serial No. 707,518.

My invention relates to improvements in musical toys or instruments known as kazoos which comprise essentially a hollow instrument body and a diaphragm adapted to be vibrated to produce musical or other sounds or noises by directing sounds or noises into said instrument body, and also belongs to that class of kazoo having a straight tapered passage through it with a diaphragm located at the side of this passage and has for an object to provide an amusing and a novel toy, simple in construction and inexpensive.

Another object is to provide an instrument whose inlet end or mouthpiece is larger than the outlet end and to the mouthpiece of which is fitted a whistle arrangement, while to the outlet end is fitted an internal horn arrangement, whereby, without removing the instrument from the lips, the toy or instrument can be played as a kazoo or a horn, by closing the whistle opening on the top of the instrument with the finger and either humming or blowing as the operator may desire, or changed to a whistle by closing the lower part of the mouthpiece with the under lip of the operator and blowing.

Another object is to provide in said toy a banjo shaped head with strings and underneath said head a pair of noise making discs or bells slidably mounted on a pivot.

With these objects in view, the invention consists in certain features of novelty in the construction, combination and arrangement of parts by which the said objects and certain other objects which will hereinafter appear are attained, the invention being more particularly pointed out in the claims.

In the drawings accompanying and forming a part of this specification, and in which similar characters refer to the same or like parts in the different views, Figure 1, is a plan view of my improved musical toy or instrument; Fig. 2, is a side elevation of the same; Fig. 3, is a central longitudinal sectional elevation and Fig. 4 is a bottom plan view.

1 is the body of the instrument having a flat top 4 and a semi-circular trough 5 forming side and bottom. 4 and 5 are practically straight longitudinally extending from the inlet or mouthpiece end 2 to a smaller or outlet end 3. The body 1 is formed of a

single piece of material, preferably tin, and when formed into proper shape, the ends are bent together as at 6, forming a solid joint without the use of solder or other like material.

7 is a circular hole through the top of the body 1, to communicate with the diaphragm 8, which is held in position by the holder 12.

9 is a ring on which the diaphragm 8 is stretched and to which it is fastened.

10 is a rectangular opening through the top of the body 1. The forward edge of opening 10 is slightly raised to form a lip 11.

13 is a dome-shaped pocket formed in the holder 12 to hold the diaphragm 8.

14 is the top of holder 12 and 15 an opening through the top 14 of holder 12 to form with opening 10, lip 11 and a raised portion 16 of top 14 of holder 12, a whistle.

17, 17<sup>a</sup> are curved sides of holder 12 and are curved sideways and tapered longitudinally to fit the sides of body 1, and are of such a size that the holder 12 can be placed on top of the body 1 at its narrower portion near the head 29 and then passed longitudinally of said body 1 towards the inlet or mouthpiece end 2 until it is firmly held in place at the position which will correctly locate diaphragm 8 over hole 7 and opening 15 over opening 10 and lip 11, at which position it is locked in place on body 1, by means of lips 18, 18 which are formed on the mouthpiece end of sides 17, 17<sup>a</sup>.

The top 14 of holder 12, the raised portion 16 and the flat top 4 of body 1 form part of the mouthpiece of the instrument at the inlet end, and the passage thus formed between body 1 and raised portion 16 of holder 12 forms an air inlet passage for the whistle.

19 is a vertical lip on holder 12 to assist in moving it to position on body 1 and to form a bridge for the strings 41, 41 and 41.

20, 20, etc. are holes through top of pocket 13 to give the instrument the proper tone when diaphragm 8 is vibrated.

21 is a horn body having the same tapered shape as the inside of the end 3 of instrument body 1 to the line 22. The balance 23 of the horn body is straight, tubular in shape and cut off on a diagonal line 24, making an opening elliptical in shape, the same as reed 25 which is fastened to it at 26. The free end of 25 is bent to give an opening 27. The horn body 21 when in place in in-

strument body 1 as shown in Fig. 3 is fastened by a punch mark 28 on body 1.

The head 29 is shaped like a banjo head, that is circular in shape with a flat top 30 but made of one piece of material, preferably tin. A hole is cut through one side of the rim of said head 29 for the insertion of the small end of the body 1 where it is soldered or fastened in any approved manner. In this way the body 1 of the kazoo forms the neck and 29 the head of a stringed instrument similar to a banjo.

Across the center of said head 29 at the bottom or open portion and opposite the top 30 is placed a flat bracing strip 34 which is fastened to said head by upturned end portions 35 and 35 extending into said head. This strip 34 is in line with the kazoo body 1. A pivoting pin 36 is fastened to said strip 34 and to the under side of the center of the top 30, the upper end of said pin 36 extending up into a recess beneath the projection 37. The projection 37 is formed by pressing up the center of the top 30. This top 30 will be referred to for convenience as a sounding board as it is the same as the sounding portion of a drum, a banjo, a tambourine, etc.

32 and 33 are two discs of metal stamped out with a central portion of the body 38 having a shape like a portion of the surface of a sphere and a fluted edge 39 having a horizontal section as at 40 and loosely mounted on the pin 36 as shown. These discs will be referred to for convenience as bells.

41, 41, 41 are strings fastened to and stretched from the corner of the head 29 at the points 31, 31, etc., over the fret 44 in the top 30, through holes 42 in the vertical lip 19, to a cross piece or fret 43 over which they are fastened. The fret 44 is formed in the top 30 in the same manner as the projection 37, that is by being pressed up from the flat surface of top 30. The strings 41, 41, 41 are stretched taut when the holder 12 is drawn toward the inlet end 2 and fastened there by the lips 18, 18 as previously described.

The operation of the instrument is as follows: By placing the large or inlet end of the instrument to the lips, covering the whistle opening 15 with the finger and humming a tune or making various sounds, the diaphragm 8 is vibrated and gives forth the well known sound of a kazoo, while simply blowing into the instrument vibrates the reed 25 producing the sound of a horn. By closing with the under lip that portion of the large or inlet end of the instrument, below the flat top 4 of the body 1, and blowing, the sound of a whistle is produced. The strings 41, 41, 41 with the kazoo body 1 and the head 29, give the kazoo the appearance of a stringed instrument like a

banjo from which some tones and a certain amount of noise and action can be obtained when picked with the fingers or when humming for the kazoo, blowing for the horn or the whistle. Vibration is induced in the strings 41, etc. at times when the horn or whistle is blown or the diaphragm of the kazoo vibrated.

The metal discs or bells 32 and 33 are used as a noise maker by sliding up and down on the pivot pin 36 and striking against the strip 34, the sounding board 30 and each other when shaken or when the instrument is struck against any object. In this way the head 29 is similar to that of a tambourine except that a louder tone is obtained from the discs when contacting with the sounding board 30 than in the ordinary tambourine where the bells are mounted on pins in the rim of the instrument and do not contact with the top or drum part. The bells 32 and 33 and the strings 41, 41 and 41 act and react on each other through the medium of the sounding board 30 and the fret 44.

It is understood that various modifications of the form shown may be employed without departing from the spirit of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In a device of the character described, including a tubular body having inlet and outlet ends and forming the neck of an instrument, a horn reed mounted adjacent to said outlet end, a side opening in said body, a diaphragm over said side opening, a second side opening in said body, air passage means on the side of said body adjacent said inlet end to form with said second side opening a whistle, an instrument head attached to the outlet end of said neck and strings aligned over said head and neck, whereby said horn, diaphragm, whistle or strings may be operated independently of the others.

2. In a device of the character described, comprising a tubular body forming a neck and with inlet and outlet ends, a head having a sounding-board top and attached to said neck adjacent its outlet end, strings aligned over said head and neck, bells pivotally mounted beneath and adapted to contact with said sounding-board, a horn reed mounted adjacent to said outlet end, a side opening in said body, a diaphragm over said side opening, a second side opening in said body, means to form with said second opening a whistle, a holder for said diaphragm and a bridge for said strings, whereby a kazoo effect is produced when a humming noise is made into the inlet end, a horn effect is produced when air is blown into the inlet end, a whistle effect is produced

when air is blown into the whistle portion of said inlet end and a banjo or tambourine effect is produced when said strings are picked or said bells are operated.

5 3. In an instrument of the type described, comprising a tubular body forming a neck, a head attached to said neck, strings aligned over said head and neck, an opening in the side of said neck, a diaphragm over said side opening and combined means to hold  
10 said diaphragm over said side opening and stretch said strings, said means consisting of a slide with depending walls arranged to move longitudinally of said neck and adapt-  
15 ed to be locked in place.

4. In an instrument of the type described, comprising a tubular body forming a neck and with inlet and outlet ends, a head having a sounding board top and attached to said neck adjacent its outlet end, strings  
20 aligned over said head and neck, bells pivotally mounted beneath and adapted to contact with said sounding board, a horn reed mounted adjacent to said outlet end, a side opening in said body, a diaphragm over said  
25 side opening, a second opening in said body and means to form with said second opening, a whistle, a holder for said diaphragm and means to hold one end of said strings.

MICHAEL J. McINTYRE.