July 1, 1924.

1,499,539

E. E. LANDON

SOUNDING TOY

Filed April 17, 1922

Fig. 1.

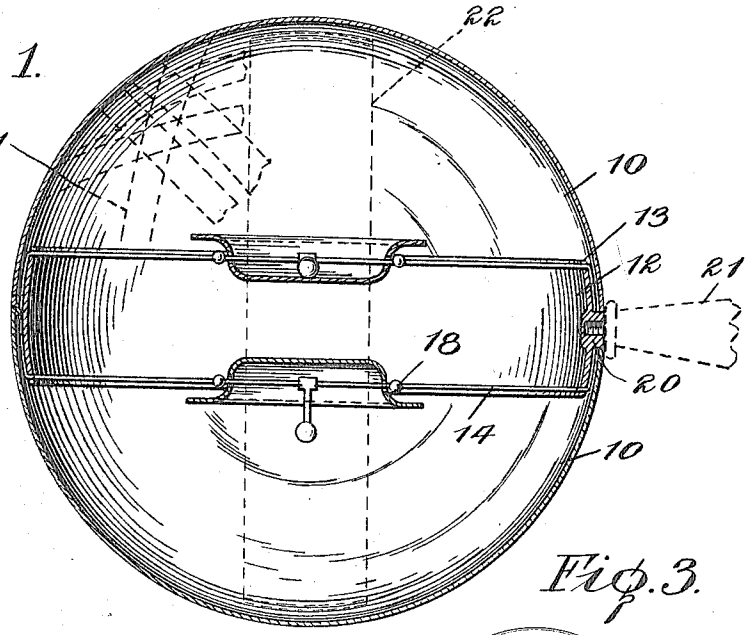


Fig. 3.

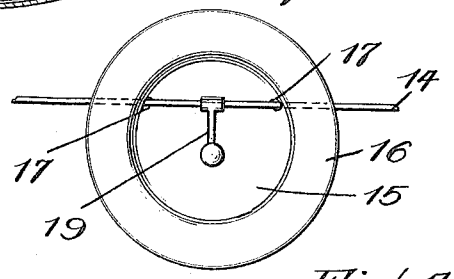


Fig. 2.

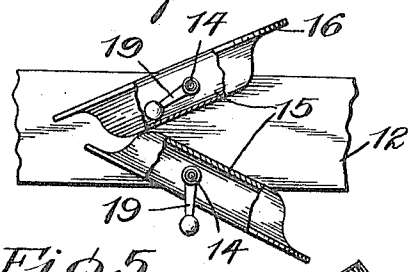


Fig. 4

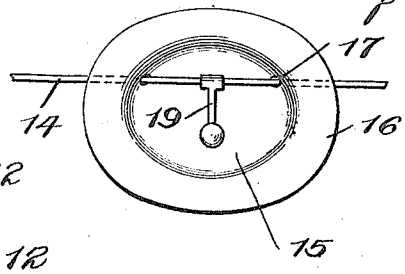
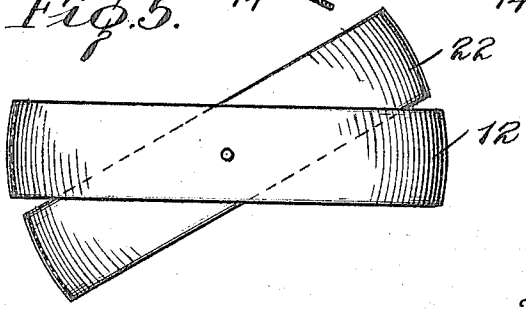


Fig. 5.



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Patented July 1, 1924. 1,499,539

UNITED STATES PATENT OFFICE.

ERNEST E. LANDON, OF WASHINGTON, DISTRICT OF COLUMBIA.

SOUNDING TOY.

Application filed April 17, 1922. Serial No. 553,539.

To all whom it may concern:

Be it known that ERNEST E. LANDON, citizen of the United States, residing at Washington, District of Columbia, has invented certain new and useful Improvements in Sounding Toys, of which the following is a specification.

This invention relates to games and toys and has special reference to a rolling sounding toy.

More particularly the invention relates to a combined rattle and rolling toy such as are used for the amusement of small children.

One object of the invention is to provide an improved general construction of devices of this character.

A second object of the invention is to provide an improved toy of this character having novel sound producing means therein.

A third object of the invention is to provide an improved toy of this character which may be used either as a ball, a rattle, or a trundling sounding toy.

With the above and other objects in view, the invention consists in general of certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings, and specifically claimed.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:—

Figure 1 is a transverse section through a toy constructed in accordance with this invention, certain modifications being shown in dotted lines.

Figure 2 is a detail section at right angles to Figure 1, the sounding devices being shown in a position different to Figure 1.

Figure 3 is a face view of one of the sounding elements.

Figure 4 is a modification of the sounding element shown in Figure 3.

Figure 5 illustrates a collapsible frame used in a modified form of the toy suitable for shipping in a knocked down state.

In the embodiment of the invention herein illustrated the device is disclosed in connection with a ball although other forms of rolling toy will readily suggest themselves and the term "ball" as used hereinafter is not intended to be interpreted strictly as a spherical closed device but may be of various types, such as a structure of reticulated material as would be formed by a series of zone like bands intersecting each other at angles but in the specific form herein disclosed the body of the ball is preferably made in two halves 10 suitably united at their edges and these halves may be made of celluloid, rubber or other material and in fact they may even be made of light reticulated construction as shown in dotted lines at 11. Within this body is positioned an annular band 12 which may be made of light metal such as aluminum or may be made of any other suitable material. Notches 13 in this band receive an elastic band 14 which extends diametrically across each side of the band 12 and on the two parts of this elastic band or cord are positioned the noise producing devices or tympani each of which consists of a plate of metal 15 dished to provide a peripheral flange 16. Through the sides of the dished portion of each tympanum extend openings 17 which are offset from the diameter or axis of the same so that more weight is distributed on one side of the elastic cord which passes through their openings than lies on the other side thereof. Thus the heavy side of each tympanum tends to hang down and, as the ball is rotated, this tendency causes the tympani to strike together. Different sounds will be produced in accordance with the points at which the tympani contact. These tympani may be of any desired shape. As for instance they may be circular as shown in Fig. 3 or oval as shown in Fig. 4. These tympani are preferably held in position by beads or knots 18 and attached to the elastic cord within each tympanum is a clapper 19 so that the noise is produced by the tympani striking together and the clappers striking the tympani.

Sockets 20 may be provided at opposite points on the band 12 so that a handle 21 or trundling stick may be attached to the ball thus enabling it to be used as a rattle or trundling toy.

If desired, especially when the lattice work exterior, is used, a second ring 22 may be arranged at right angles to the first, the two rings being, if desired, pivotally connected so that they may be collapsed as in Figure 5 for shipment.

There has thus been provided a simple and efficient device of the kind described and for the purposes specified.

It is obvious that minor changes may be

made in the form and construction of the invention without departing from the material principles thereof. It is not therefore desired to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly come within the scope claimed.

Having thus described the invention, what is claimed as new, is:—

1. In a sounding toy, a hollow ball, a pair of elastic members extending across the interior of said ball in parallelism, and tympani each mounted for swinging movement on a respective member said elastic members and tympani being positioned that swinging movement of the latter cause them to strike together.

2. In a sounding toy, a hollow ball, a pair of elastic members extending across the interior of said ball in parallelism, tympani each mounted for swinging movement on a respective member, said elastic members and tympani being positioned that swinging movements of the latter cause them to strike together, and clappers mounted on said elastic members and positioned to strike said tympani.

3. In a sounding toy, a hollow ball, a ring mounted within said ball, cords extending diametrically of respective sides of the ring in parallelism, and dished tympani each having one of said cords extending through it from side to side in displaced relation from the diameter of the respective tympanum and parallel thereto.

4. In a sounding toy, a hollow ball, a ring mounted within said ball, cords extending diametrically of respective sides of the ring in parallelism, dished tympani each having one of said cords extending through it from side to side in displaced relation from the diameter of the respective tympanum and parallel thereto, and clappers swingingly secured to the cords within the dished portions of the tympani.

5. In a device of the kind described, a pair of hollow hemispheres adapted to be united at their edges to form a ball, and a collapsible supporting frame within said hemispheres, and consisting of a pair of rings pivoted to swing at right angles to each other and to rest one within the other.

6. In a device of the kind described, a ball having a reticulated exterior and provided with an interior supporting frame, said exterior being formed in two unitable parts and said supporting frame being collapsible.

In testimony whereof I affix my signature.

ERNEST E. LANDON.