Oct. 6, 1925. 1,556,356

A. RUSSO

TOY BALLOON

Filed Dec. 10, 1923

FIG. 1.

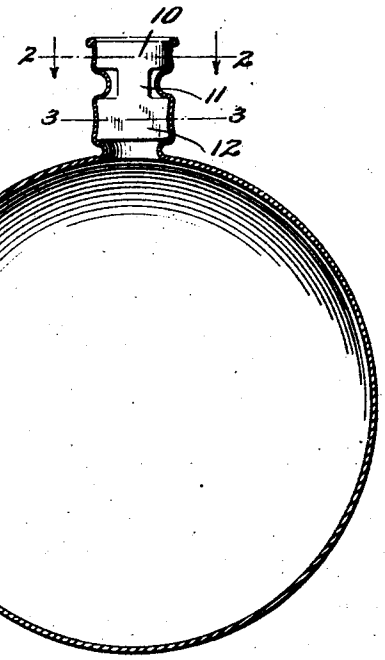


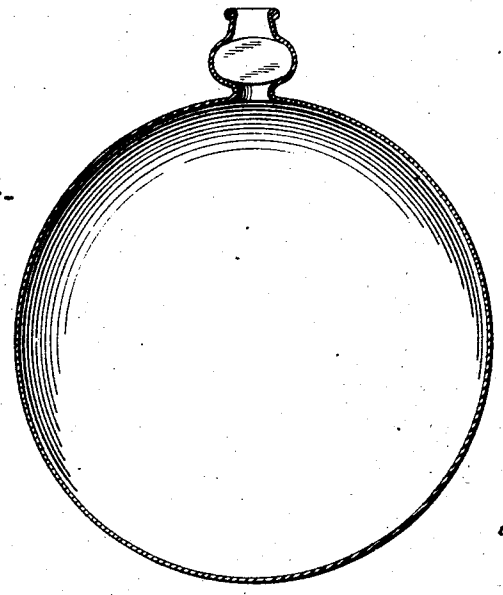
FIG. 2.



FIG. 3.



FIG. 4.



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Patented Oct. 6, 1925. 1,556,356

UNITED STATES PATENT OFFICE.

ALBERT RUSSO, OF PITTSTON, PENNSYLVANIA.

TOY BALLOON.

Application filed December 10, 1923. Serial No. 679,686.

To all whom it may concern:

Be it known that I, ALBERT RUSSO, a citizen of the United States, and a resident of Pittston, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Toy Balloons, of which the following is a specification.

This invention relates to toy balloons, and particularly to toy balloons of the sounding type.

The object of the present invention is to produce a device of simple and cheap construction, which is adapted to be inserted in the neck of a toy balloon and which when thus applied forms the rubber of the neck into tightly stretched diaphragms adapted to be set into vibration to produce a sound when the air rushes thereacross during deflation of the balloon.

The preferred form of device embodying the present invention consists of a thin body of metal or other suitable material comprising an upper or outer portion which is preferably of rectangular form and is slightly curved in transverse section to form a mouth piece for inflating the balloon, and comprising an inner portion joined to the upper portion by a relatively narrow neck, the said inner portion being plane and thereby adapted to stretch the elastic material tightly thereacross forming sounding membranes. The device is simple and can be manufactured very cheaply and it has been found by actual practice to be highly efficient as a sound producer.

Referring to the accompanying drawings for a particular description of my invention:

Fig. 1 is a section through a toy balloon showing the device of my invention inserted in the neck thereof, the balloon being in inflated condition.

Figures 2 and 3 are sectional views on the corresponding lines of Fig. 1.

Figure 4 is a view similar to Figure 1, illustrating the device in its simplest form.

The preferred form of the invention is shown in Figs. 1, 2 and 3. It consists of a thin body comprising an outer portion 10 which, as shown in Fig. 2, is slightly curved in cross section, a relatively narrow neck 11, and an inner portion 12 which, as shown by Fig. 4, is substantially plane. The edges of this body should be rounded so as to avoid cutting through the neck. The lateral ends of the members 10 and 12 may be concavely curved, as illustrated, to give the body a firm lodgment in the neck of the balloon. The reduced connecting portion 11 also serves to prevent dislodgment of the device, as will be obvious from Fig. 1.

The curved formation of the upper portion 10 stretches the rubber at one side in a straight line and thus forms a space between its concave surface and the rubber through which air may with facility be blown into the balloon. The inner portion 12 is the sound producing member of the device. Per se it produces no sound, but it causes sound to be produced by forming the elastic neck portion of the balloon into tightly stretched membranes which are set in vibration by the air rushing past them during deflation of the balloon. The concavely curved edges of 12 produces slight wrinkles in these membranes, thereby accentuating or increasing the sound.

Figure 4 illustrates a sound producing device consisting of a plane disk 13 of oval or elliptic shape inserted in the neck of an inflated balloon. This simple disk by forming membranes of the rubber on each side thereof will cause a loud sound to be produced when the air rushes thereacross during deflation of the balloon.

So far as I am aware, I am the first to produce, in combination with a toy balloon, a sound producing device consisting of a plane disk located in the neck of the balloon and serving to stretch the rubber at the sides thereof so as to form diaphragms adapted to be set in vibration by the air escaping from the balloon during deflation thereof, and I desire to cover this idea broadly in the claims appended hereto.

Now having particularly described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:—

1. In combination with an india rubber toy balloon opening to the atmosphere through a neck of substantial length, a thin plane plate in said neck forming transversely tightly stretched neck portions on both sides thereof and parallel thereto adapted to be vibrated by the air rushing through the neck when the balloon is being deflated.

2. In combination with an india rubber toy balloon opening to the atmosphere through a neck of substantial length, a thin plane plate in said neck transversely elongated and forming transversely tightly stretched neck portions on both sides there-

of and parallel thereto adapted to be vibrated by the air rushing through the neck when the balloon is being deflated.

3. In combination with an india rubber toy balloon opening to the atmosphere through a neck of substantial length, a thin plate in said neck consisting of a transversely curved outer portion forming a mouth piece and a plane inner portion forming transversely stretched neck portions on both sides thereof adapted to be vibrated by the air rushing through the neck, and a reduced portion joining said outer and inner portions.

In testimony whereof I hereunto affix my signature.

ALBERT RUSSO.