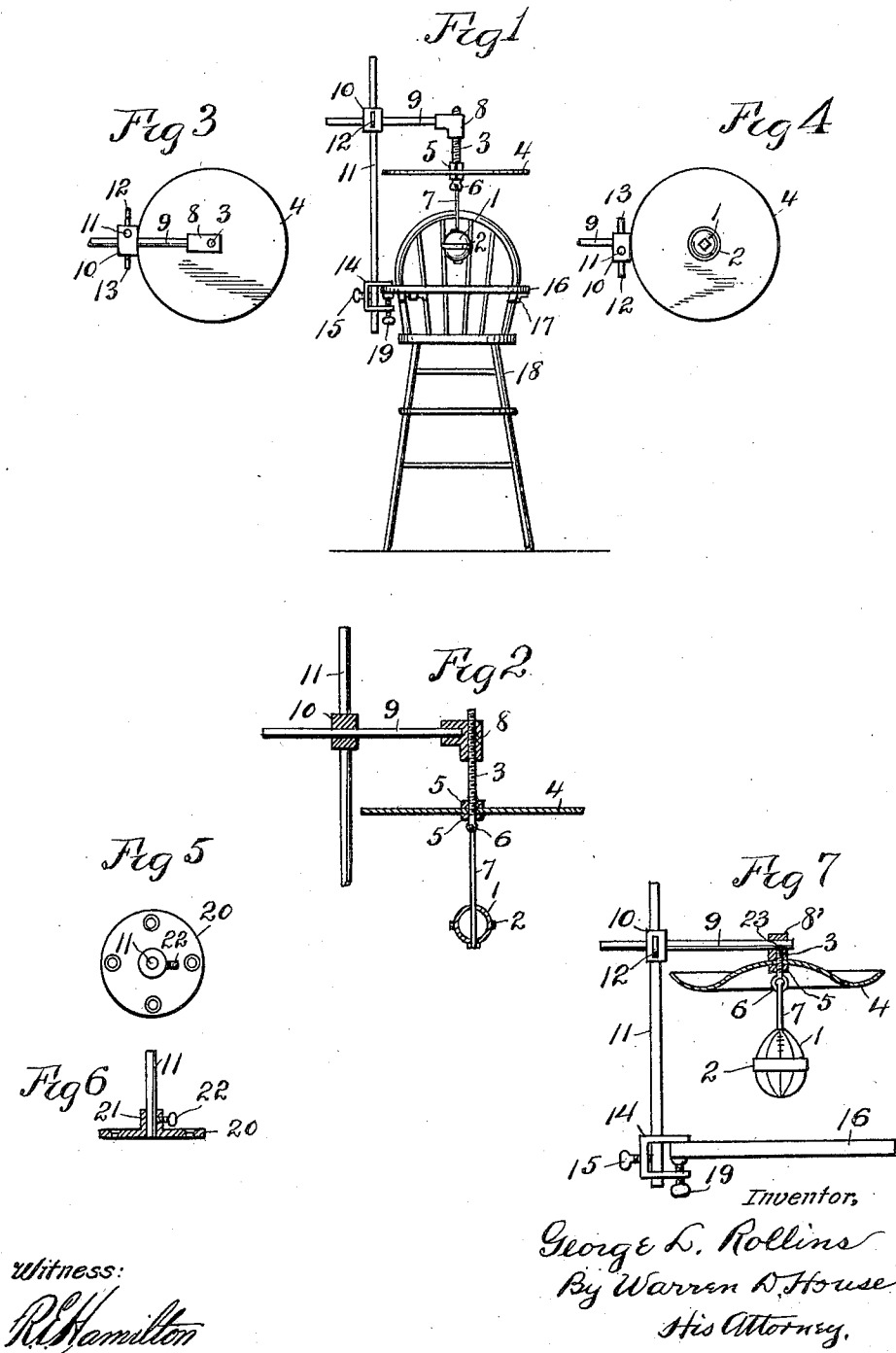


G. L. ROLLINS.
SOUNDING TOY.
APPLICATION FILED FEB. 11, 1921.

1,404,894.

Patented Jan. 31, 1922.



UNITED STATES PATENT OFFICE.

GEORGE L. ROLLINS, OF KANSAS CITY, MISSOURI, ASSIGNOR OF ONE-HALF TO JAMES W. REED, OF CHICAGO, ILLINOIS.

SOUNDING TOY.

1,404,894.

Specification of Letters Patent.

Patented Jan. 31, 1922.

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To all whom it may concern:

Be it known that I, GEORGE L. ROLLINS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Improvement in Sounding Toys, of which the following is a specification.

My invention relates to improvements in toys.

The object of my invention is to provide a toy adapted to be attached to a child's chair, the toy having a suspended ball that the child, while sitting in the chair may swing to and fro for the child's amusement.

My invention further provides a sounding member adapted to be struck by the ball to produce a sound, the ball being suspended by a flexible device, such as a cord, which may or may not be elastic.

My invention further provides novel means by which the positions of the ball and sounding member may be adjusted vertically and laterally with reference to the chair.

Other novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawings, which illustrate the preferred embodiment of my invention,

Fig. 1 is a front elevation of one form of my invention, showing the device attached to a child's high chair.

Fig. 2 is a vertical sectional view of the sounding disk, ball and some of the other parts shown in Fig. 1, and enlarged in Fig. 2.

Fig. 3 is a top view of what is shown in Fig. 2.

Fig. 4 is a bottom view of what is shown in Fig. 2.

Fig. 5 and Fig. 6 are respectively plan and vertical sectional views of one form of device for supporting the vertical rod, which in turn supports the horizontal rod.

Fig. 7 is a view partly in side elevation and partly in central vertical section of another form of my invention.

Similar reference characters designate similar parts in the different views.

1 designates a ball which may be of any suitable material, such as rubber or leather and which may have mounted on it an encircling ring 2, preferably rigid material,

such as metal, and adapted, when the ball 1 is swung to strike a horizontal sounding disk 4, also preferably of metal, and which has a central hole through which extends a vertical screw threaded rod 3.

In the form of my invention shown in Figs. 1 and 2 the rod 3 has mounted on it above and below the disk 4 two nuts 5, which clamp the disk 4 in the position to which it may be adjusted on the rod 3, said rod being mounted in a vertical screw threaded hole provided in a block 8. The block 8 is provided also with a horizontal hole in which is secured a rod 9. The lower end of the rod 3 is provided with an eye 6 in which is secured the upper end of a flexible device such as a cord 7, which may be elastic, and which has its lower end secured to the ball 1.

The rod 9 is mounted slidably in a horizontal hole in a block 10 which is provided with a vertical hole in which is slidably mounted a vertical rod 11. In the block 10 are provided set screws 12 and 13 which may be employed to releasably hold the rods 11 and 9 in the positions to which they may be respectively adjusted.

The rod 11 extends through two holes provided in the arms of a U-shaped clamping block 14 the lower arm of which is provided with a vertical screw threaded hole in which is fitted a set screw 19 which is adapted to bear against the under side of a shelf 16, such as is usually pivotally secured to the arms 17 of a child's high chair 18, the upper arm of the block 14 bearing against the upper side of the shelf 16. In the middle vertical portion of the U-shaped block 14 is a horizontal screw threaded hole in which is fitted a set screw 15 the inner end of which bears against the rod 11.

In the form of my invention shown in Fig. 7, the rod 9 is mounted in a transverse hole in a block 8', the rod being preferably slidably mounted in said hole so that, if desired the block 8' may be adjusted on the rod. The block 8' is provided with a vertical hole which is screw threaded and intersects the transverse hole, preferably, and has fitted therein the rod 3. The disk 4 is held clamped against the block 8' by a single nut 5.

The sounding member may be of any desired shape, in Fig. 1 it is shown as flat, and in Fig. 7 as having the central portion con-

cavo-convex, with the edges upwardly turned, so that they will not cut the child's head.

In the form shown in Fig. 7, the rod 9 may have a lateral notch 23 which is adapted to receive the adjustment end of the rod 3, thereby holding the block 8' against movement on the rod 9.

In Figs. 5 and 6 is shown a horizontal plate 20, which is provided with a vertical boss 21 through which extends a vertical hole adapted to receive the lower end of the rod 11. A set screw 22 is provided in the boss 21 for holding the rod 11 in its proper position. The plate 20 may be secured to the floor by any suitable means, when it is desired to mount the device on the floor.

The operation of the invention is simple. To vertically adjust the block 10, the set screw 12 is loosened, after which the block may be vertically adjusted on the rod 11. Or the set screw 15 may be loosened and the rod 11 vertically adjusted.

By loosening the set screw 13, the rod 9 may be adjusted lengthwise in the block 10.

The child sitting in the chair 18 may swing the ball 1 until the ring 2 strikes the sounding member 4, thereby producing sounds for the amusement of the child. Or the ring 2 may be dispensed with, if desired. If the cord 7 used is elastic the ball 1 may be drawn downwardly, and upon being released it will fly upward and strike the sounding member 4.

In mounting the device upon the shelf 16, it may be secured thereto in any suitable position. When the shelf is swung on the arm 17 to which it is pivoted, the device will be carried with it so as to clear the front of the chair, so that the child may be placed upon or removed from the chair seat without interfering with the mechanism.

I do not limit my invention to the structure shown and described, as many modifications, within the scope of the appended claims, may be made without departing from the spirit of my invention.

What I claim is.

1. The combination with a vertical rod, of means for securing the rod to a chair, a transverse rod, means supported by the vertical rod by which the transverse rod may be horizontally and vertically adjusted, a disk, means for supporting the disk on the transverse rod, a ball, and an elastic member secured to the ball and supporting means by which the ball may be swung to strike the disk.

2. The combination with a pivoted shelf of a child's chair, of a support, means for securing said support to said shelf, a sounding disk carried by said support, a ball, and means for supporting the ball from said support so that the ball may be swung to strike the disk.

In testimony whereof I have signed my name to this specification.

GEORGE L. ROLLINS.