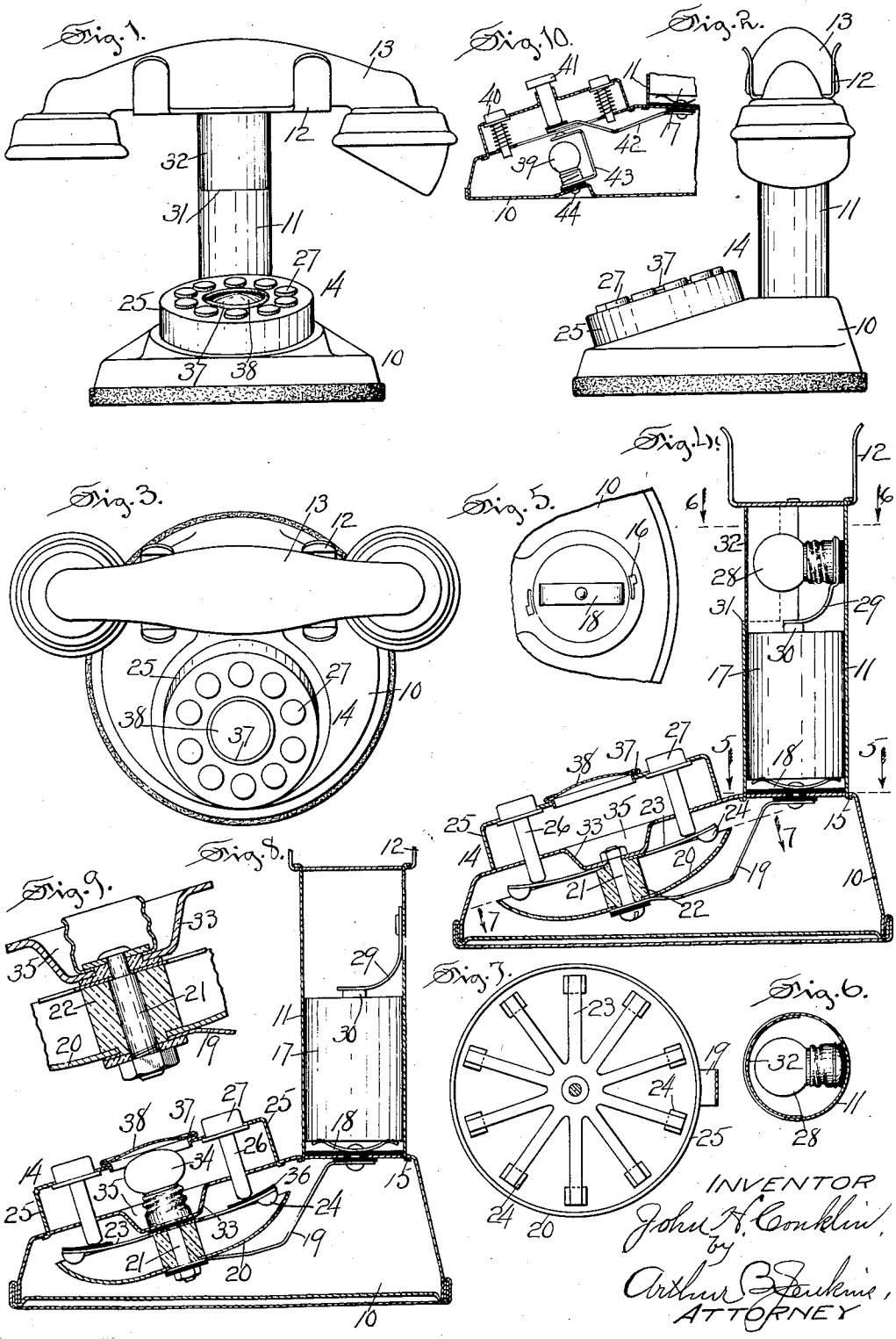
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TOY TELEPHONE

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TOY TELEPHONE

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My invention relates to toys of a type constructed to represent telephone apparatus of the later type of construction, and an object of my invention, among others, is to provide a toy of this sort equipped with features that shall lend to the amusement of children at play.

Forms of my improved toy telephone in the construction and use of which the objects herein set out, as well as others, may be attained, is illustrated in the accompanying drawing in which—

Figure 1 is a front view of my improved toy telephone.

Figure 2 is a side view of the same.

Figure 3 is a top view.

Figure 4 is a view in central vertical section.

Figure 5 is a view on enlarged scale in section on a plane denoted by the dotted line 5—5 of Fig. 4.

Figure 6 is a view in section on a plane denoted by the dotted line 6—6 of Fig. 4.

Figure 7 is a view in section on a plane denoted by the dotted line 7—7 of Fig. 4.

Figure 8 is a view similar to Fig. 4 but illustrating a lamp located within the drum which supports the buttons.

Figure 9 is a view on enlarged scale of a fragment of the device of Fig. 8 and illustrating the manner of attachment of a lamp within said drum.

Figure 10 is a view of a fragment of my improved toy telephone but showing the lamp arranged to illuminate the calling buttons of transparent material and with a central button for illuminating the light.

It is the purpose of my present invention to provide a toy telephone resembling that type of a regular telephone wherein buttons or plungers are employed for the purpose of effecting telephonic connections with persons to be conversed with, the depression of the buttons or plungers also operating to create a noticeable effect that will aid in or lend to the amusement of the childish mind, and this effect may appeal to the eye, to the ear, or to any other of the senses, in the toy herein shown the effect produced appealing both to the eye and to the ear, as by a light or as by a sound.

In the accompanying drawing the numeral 10 denotes the base of my improved toy telephone, 11 a post rising therefrom, 12 a bracket attached to the top of the post, 13 a hand set of the so-called "French" or monophone type of telephone, and 14 generally a calling device mounted on the base 10, all of the parts just described being made to closely resemble similar parts of an ordinary and regular telephone set.

The post 11 is hollow and is removably secured to the base so that it may be readily removed, any suitable means for securing this result being employed, in the structure shown herein clips 15 extending from the bottom edge of the post on diametrically opposite sides thereof engaging through key hole openings 16 formed in the base, and as shown in Figs. 4 and 5 of the drawing. The opening within this hollow post is freely accessible from its lower end so that a battery cell 17 may be readily inserted in said opening by pushing it thereinto from the end of the post.

A spring terminal 18 is secured to the top of the base 10 and is insulated therefrom, a rivet or other suitable device, also insulated from the base, securing said terminal in place. A conductor 19, also insulated from the base, extends toward the front of the chamber within the base and supports at its free end a gong or bell 20 secured to a post 21 projecting downwardly from a hub 33 formed on the undersurface of the top of the base, and as shown in Fig. 4. The end of the conductor 19 is insulated from the post 21, the opening through which said post extends being large enough to prevent the conductor from touching the post. The post is insulated from the gong 20 by a sleeve 22 of insulating material.

A grid is mounted on the sleeve 22, this grid comprising spring striker arms 23 radiating from the center of the grid and terminating in strikers 24 adapted to strike the gong 20.

A drum 25 is secured to the top of the base 10 in any suitable manner, as by means of clips, and plungers 26 are mounted in the drum and in the plate forming the top of the base 10, each plunger having a button 27 at its outer end by means of which the plunger may be operated. Each plunger overlies one of the arms 23 and a quick blow upon a plunger will cause a hammer to be forced against the gong to ring the latter. When the hammer touches the gong this will also complete the electric circuit from the sleeve conductor 19 through the frame to the central contact point of an electric light bulb 28 and through the socket of said bulb and a conductor 29 to the terminal 30 of the battery 17.

A window 31 is formed in the front of the post 11, this window comprising a pane 32 of any suitable transparent material extending sufficiently around the interior of the post 11 to hold it in place, and when the battery is removed the pane may be slid downwardly to uncover the

opening for the removal and insertion of electric light bulbs.

In that form of the structure shown in Figs. 8 and 9 a lamp 34 is placed within the recess 35 formed in the hub 33, the grid comprising the arms 23 being insulated from the hub 33 and the outer ends of the arms also bearing insulations 36 to insulate the grid from the stems or plungers 26. A dome 37 is formed in the center of the drum 25 with a glass 38 through which light from the lamp 34 may shine.

In this form of the device when a button 27 is depressed contact between a striker 24 and the gong will close the circuit through the conductor 19, post 21, central contact of the lamp, through the filament of the lamp to the shell or socket thereof and into the frame, and thence through the conductor 29 to a terminal of the battery.

In that form of the device shown in Fig. 10 the parts are generally arranged as hereinbefore described. The sounding device, however, is omitted and the lamp 39 is mounted within the chamber in the base 10 and on the bottom thereof. The calling buttons 40 are of transparent material so that they will transmit the rays of light from the lamp 39, the latter being enclosed within the base so that the light will shine only through said buttons. A central button 41 is employed to press a conductor 42 from one terminal of the battery 17 into contact with a terminal 43 from the lamp 39, the stem of the button 41 being insulated from the conductor 42.

In this structure the battery 17 is grounded on the post 11 as in the device of Fig. 8, and the conductor 42 being pressed into contact with the terminal 43 the current passes from the bottom terminal of the battery through the conductor 42 and the terminal 43 to the shell of the lamp, through the filament thereof, and through the central lamp terminal 44 to the frame and from the frame to the other terminal of the battery through the conductor 29, as shown in the device of Fig. 8.

While I have illustrated and described herein an electric lamp as the means for denoting the manifestation or conspicuous result from pressing the buttons, yet, other means for producing the manifestations may be employed as within the spirit and intent of my invention, it being noted that when a button is pressed the bell is rung and other manifestations also take place as a result.

While the manifestation, as an electric lamp, is shown herein in one instance as located in the post 11 and in another instance within the drum 25, I contemplate that the lamp may be located in either of said positions or in both, as may be desired, the electric circuit being arranged as will be understood by electricians to accommodate any of such arrangements.

In fact my invention contemplates various manifestations produced as a result of closing an electric circuit, and one or any number of these manifestations may take place separately or simultaneously, and the result may be produced by pressing one or more calling buttons or a button or buttons otherwise arranged to close such circuit.

I claim:

1. A toy telephone including a base member, a post member for the bracket of a telephone hand set secured to and rising from the base, one of said members having a chamber for a battery cell, a non-rotatable simulation of a calling device mounted on the base, means operated by the simulation of the calling device for controlling an electric circuit, and signal means in said circuit rendered operable upon the closing of the electric circuit.

2. A toy telephone including a base member, a post member for the bracket of a telephone hand set secured to and rising from the base, one of said members having a chamber for a battery cell, a non-rotatable simulation of a calling device including a series of push buttons mounted on the base, means operated by any one of said push buttons for controlling an electric circuit, and signal means in said circuit rendered operable upon operation of any one of said push buttons.

3. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a non-rotatable simulation of a calling device mounted on the base and including a series of push buttons, and signal means rendered operable as a result of the operation of any one of said push buttons.

4. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a non-rotatable drum mounted on the base, a circular series of push buttons movably mounted in said drum, and signal means rendered operable as a result of the operation of any one of said push buttons.

5. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a non-rotatable simulation of a calling device including a number of push buttons mounted on said base, and a bell sounded by the operation of any one of said push buttons.

6. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a simulation of a calling device including a non-rotatable drum mounted on the base, a circular series of push buttons movably mounted in the drum, and a bell mounted in the chamber beneath the drum and operated by any one of said push buttons.

7. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a simulation of a calling device mounted on the base and including a non-rotatable drum with a circular series of push buttons mounted therein, an electric lamp mounted within said drum, an electric circuit including said lamp under the control of said push buttons and a switch in the circuit including a fixed contact and a plurality of cooperating movable contacts with a movable contact associated with each push button.

8. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a simulation of a calling device including a non-rotatable drum mounted on said base and a circular series of push buttons movably mounted in said drum, an electric lamp mounted in said post, an electric circuit including said lamp under the control of said push buttons and a switch in the circuit including a fixed contact and a plurality of cooperating movable contacts with a movable contact associated with each push button.

9. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a simulation of a calling device including a non-rotatable drum mounted on the base and a number of push buttons mounted therein, a grid having arms each operated by a push button, and an electric

circuit arranged to be closed by the operation of any one of said push buttons.

10. A toy telephone including a base, a post for the bracket of a telephone hand set secured to and rising from the base, a simulation of a calling device including a non-rotatable drum mounted on the base and a series of push buttons mounted in the drum, a battery cell in the telephone and an electric circuit with a lamp and a bell in the circuit, the bell constituting an electric contact and a grid circuit having a plurality of radial arms with each arm constituting a bell hammer contact and associated with a push button whereby the bell is sounded and the lamp illuminated upon operation of any one of the push buttons.

11. A toy telephone as set forth in claim 10, characterized by a window opening in the upper side of the drum and the lamp located in the base beneath the drum window.

12. A toy telephone as set forth in claim 10, characterized by a window opening in the post and the lamp located in the post in line with the window opening.

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