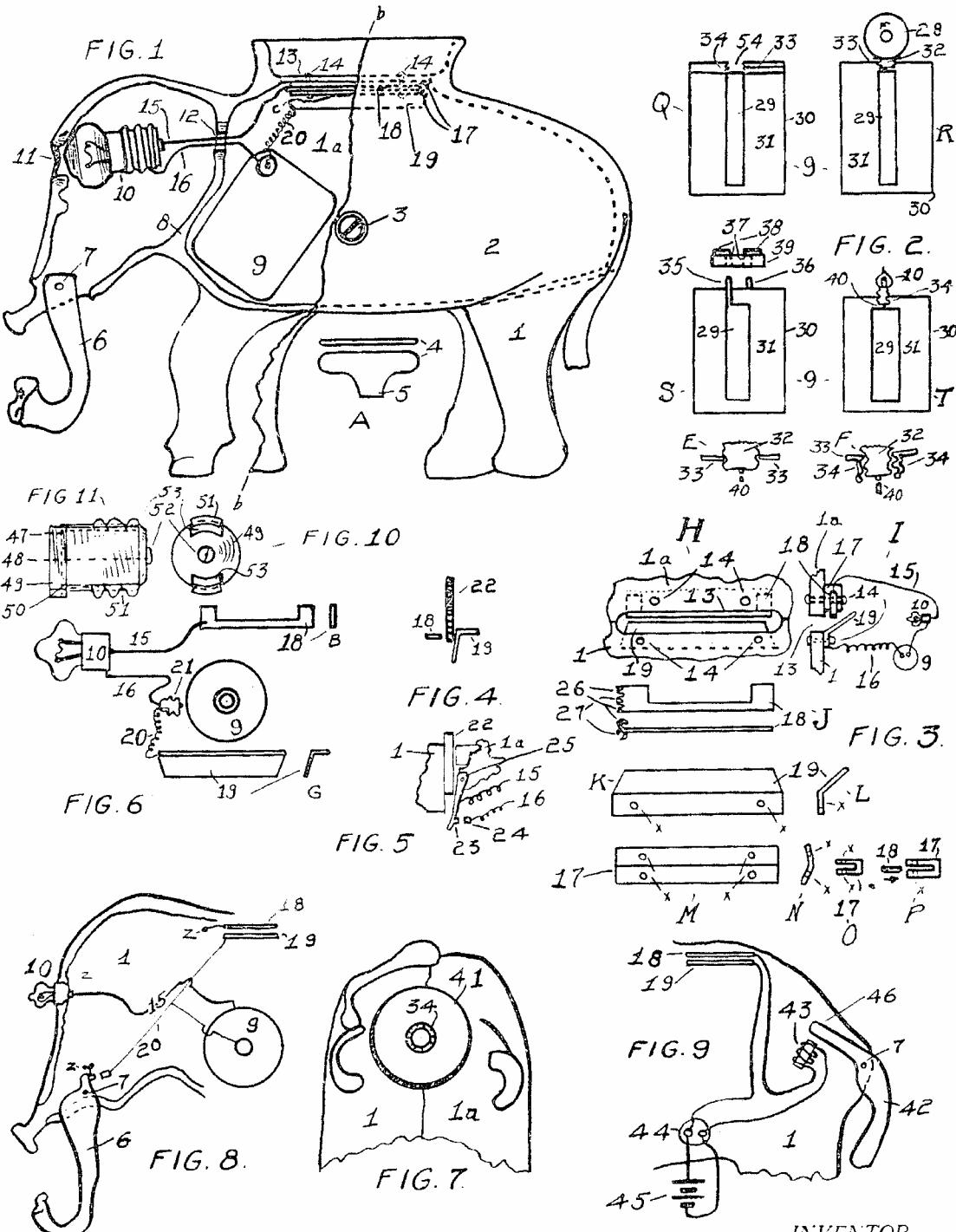


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ELECTRICAL TOY AND DEVICE.
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1,300,361.

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WITNESSES:

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PHILIP E. EDELMAN, OF ST. PAUL, MINNESOTA.

ELECTRICAL TOY AND DEVICE.

1,300,361.

Specification of Letters Patent. Patented Apr. 15, 1919.

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To all whom it may concern:

Be it known that I, PHILIP E. EDELMAN, a citizen of the United States, residing at St. Paul, 1803 Hague Ave., in the county 5 of Ramsey and State of Minnesota, have invented Electrical Toys and Devices, of which the following is a specification.

My invention relates to electrical novelties utilizing small amounts of power such 10 for example as electrical toy banks and I aim primarily to provide inexpensive non-injurious devices of this nature which will please children and others while at the same time affording obvious educational lessons. 15 A further object is to provide electrical means which while incidental to the primary object are nevertheless capable of commercial service, such for example as to supply a cheap serviceable lantern. Other objects will presently appear. By way of example I show means therefor in the accompanying drawing, in which—

Figure 1 is an embodiment of my invention in a toy, being shown as a front elevation 25 partially cut away along the line *b b*; Fig. 2, a diagrammatic representation of contact arrangements for a battery or cell embodied in my invention, being shown at E, F, Q, R, S, T thereof; Fig. 3, is a detail view showing the parts of the coin operated switch used in the toy bank of Fig. 1, in which H is a top or plan view thereof assembled, I a side view projected therefrom and containing in addition a circuit diagram; J, a front elevation and plan view of the member 18 of the said switch, K a plan view and L a side view of the member 19 thereof, and M N O P are views of the member 17 thereof; Fig. 4 is a view explanatory of the operation of said switch; Fig. 5 is a diagrammatic view of a modification of 30 said switch. Fig. 6 is a diagrammatic view of the electrical parts as embodied in the toy of Fig. 1; Fig. 7 is a bottom partial view 35 of the figure of Fig. 1 showing a modification thereof; Fig. 8 is a fragmentary diagrammatic view showing a modification of the electrical part of the toy of Fig. 1; Fig. 9 is a diagram showing a modification of 40 the invention embodied in a figure toy bank like that shown in Fig. 1; Fig. 10 shows an end view of a plug such as is diagrammed

in Fig. 2, and Fig. 11 shows a side view of this plug connector.

Similar letters and numerals refer to similar parts in the several views, numerals denoting parts mentioned in the specification, and capital letters parts of figures while small letters denote section lines, cut lines, holes, electrical connections or subscripts as 55 specified.

Fig. 1 shows an example of my invention embodied in a toy bank. The bank as shown comprises a two part hollow figure (here 60 representing an elephant). It may for instance be made in the usual manner as a hollow casting or stamping of suitable metal or composition comprising two halves 1 and 1^a held together by a screw or fastener 3 which is removable by means of a key 4—5 65 as shown at A. This key can conveniently be stamped out of sheet metal or cast so that the portion 4 thereof can be held by the fingers to turn the screw 3 by means of the screw driver end 5. A coin holding compartment 2 is thus formed. Coins may be placed through an opening 13 suitably 70 formed on the toy figure and serve to operate a switch or circuit closer 18—19 during their passage. The member 19 thereof then prevents the return of the coin by shaking in the usual manner and is also formed to extend as a shield over the member 18 to prevent short circuiting or closing the circuit if a child should shake or turn the toy over. 75 The battery 9 may be of any suitable type, preferably of the kind known as dry cells and similar to those used in flashlights and in Fig. 1 is shown in place. It will be noted that it is preferably shaped to fit snugly 80 within the hollow toy as in Fig. 7 for example so that it will not move about or wear through to a bare spot and thus short circuit. It may of course be shaped to conform to the toy figure or form a part thereof but I 85 find by experiment that the round form of dry cell well made and carefully sealed-in at the ends to prevent loss of its moisture is preferable. To this end, when the cell 9 is completed I immerse the whole of its surface 90 in a wax which solidifies on cooling such for instance as the wax known by the trade name of Halowax, a chlorinated product having a high melting point,

though ordinary paraffin or pitch will do. The life of the battery may be served for fully 100% longer in this manner thus permitting the use of a cell of small bulb for a practical length of time. The circuit is completed through any suitable electrical current consuming device using relatively small amounts of power, such for instance as a miniature electrical lamp. This lamp 10 is shown in the standard form but should preferably be of the tungsten filament type though for cheapness a carbon lamp will do. A single cell affording about 1.5 volts will light up any of the small lamps rated at as much even as 3 volts sufficiently bright to serve as an animal eye.

A lamp requiring as little as 1 watt lights brilliantly in a toy of this nature. I prefer to connect the lamp 10 by insulated fixture wires 15, 16 which 1 find has sufficient mechanical rigidity to support the whole mechanically as well as electrically. As shown, these wires 15, 16 are simply soldered to the bulb terminals of lamp 10. In using a lamp with such a toy a hole or light opening 11 is formed in the shell and its equivalents thereof as the thickness of the shell and its general location to form a suitable bank. Thus it will be noted that money cannot be fastened to 1^a to allow the more one pulls on such a joint the better it holds as the wire 15 is then acting as a friction wedge. The contact piece 19 of suitable metal is shaped as shown by front view K and side view L, with holes α and then fastened to 1^a, no insulation being necessary here. Contact with wire to battery 9 can be made in any suitable manner. Fig. 6 shows the simple scheme of connections. Having already assembled the fiber 17 on 1^a and 19 on 1, it is merely necessary to push 18 into 110 place as already described, and place 10, 15, 16 and 9 in position, where as already set forth they stay until removed. 21 of Fig. 6 folded over about the slot portion 13 as a force hinge so that coins can be extracted without disturbing the connections. For cheapness the connections can accordingly all be soldered. As shown however and preferably, the battery is arranged so that it can be readily renewed, suitable means being shown in Fig. 2 hereafter described. The contact piece 18 of switch 18—19 is held insulated from the frame 1^a by means of insulation 17 and fasteners 14, the details being clearly shown in Fig. 3.

Fig. 4 shows how the switch of Figs. 1 and 3 operates. The coin 22 simply drops and in so doing must touch both the insulated edge contact 18 and the uninsulated spring contact strip 19, thereby causing in the case of

Coin of all kinds operate this switch equally well as the battery 9 itself is formed in or as a part of the battery 9 itself to be capable of general use aside from its obvious value for toy electric banks and similar devices. I am aware that male screw caps have been added to batteries, being known as Patterson screw tops, but such electrodes are exposed as distinguished from protected electrodes such as I show and consequently the female screw socket I illustrate is less liable to short circuit. A further advantage is that an electrical device, such for example as a lamp 10, shown at T Fig. 2, can be simply pushed or screwed into the battery to form a toy or useful device in itself. Thus by making the battery 9 with larger dimensions and using for example a lamp 10 colored red such a lamp will burn steadily all night long as a danger signal on one cell and then may be used again by renewing this cell or exchanging it for a fresh one. Similarly a toy, or toy part such as an electric motor may be mounted on a male plug and be simply pushed or turned into a battery 9 as indicated in Fig. 2. R 20 portion 52 compresses within the slots 53 to 25 form a smaller diameter which will pass the female socket threads of an ordinary socket plug threaded only at the sprung portions 51 are held so that they can move transversely toward and away from the screw terminal 52 of wire 48 centrally located in plug 49. It is obvious that this plug can be turned into an ordinary socket in the usual manner but it can also be simply pushed therein because the shallow threaded portion 51 compresses within the slots 53 to 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130

9 in circuit. I particularly believe the forms in which a socket (female) is formed in or as a part of the battery 9 itself to be capable of general use aside from its obvious value for toy electric banks and similar devices. While devised primarily for use with a female socket, formed in a battery 9 as described it is obviously useful for general circuit connections as well, as for example electric light socket connectors. A plug of insulating material 49 suitably formed according to the device to be connected to the terminals 47, 48 (as for instance the motor 28 or wires 16, 20 of Figs. 2 and 1 respectively) has longitudinal slots 53 in which the long sides of a spring brass strip 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 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the upper or top end so that a battery of the type already described with a female socket and into said compartment so that metal pieces deposited in said compartment will be quickly inserted or withdrawn without opening up the bank.

I have now described my invention and its several features, all of which are clearly inter-related and contribute to a common object of which an example has been fully described. It is clear that I may combine the embodiments illustrated in the several views into one toy figure, for instance, and that various changes and modifications may be made within the scope of the appended claims.

15 I claim, and these Letters Patent are to be understood as granted for—

1. In a device of the class specified, a toy figure, an electrical device included thereby, an electrical circuit therefor, a coin compartment within said figure, a coin slot connecting therewith, and electrical contacts in relation to said slot and included in said circuit, said contacts comprising means which permit passage of coins in one direction only.
2. A toy bank including an electrical current consuming indicator, a current source and circuit controlling contacts therefor, said contacts comprising a pair of metal pieces insulated from each other, one of which has its edge facing the flat side of the other, at an angle to permit passage of a coin therebetween in one direction only.
3. A toy bank comprising an ornamental figure including an electrical device, means for protecting said device from injury and from coins entering said bank, an electrical circuit and circuit closer for said device, said circuit closer being operated by a coin in passing into said bank and comprising means to prevent the return passage of said coin.
4. In a device of the class set forth, a toy figure, an electrical lamp forming a portion thereof, a money compartment therein, a coin slot connecting therewith, a pair of contacts arranged about said slot, a battery connecting with said lamp and contacts, one of said contacts extending over the other whereby a coin can pass therethrough into said compartment but not reversely.
5. In a device of the character specified, a toy figure, an electrical device included thereby and forming a working part thereof, of an electrical circuit thereon, a compartment within said figure and an open slot connecting therewith, electrical contacts in relation to said slot and included in said circuit, and means comprised in said toy figure to permit access to said compartment.
6. In a device of the class set forth, a toy figure, an electrical device forming a portion thereof, a compartment therein to hold deposits, a slot connecting therewith, a pair of contacts arranged about said slot, a battery connecting with said electrical device and contacts, said contacts being arranged so that

one thereof extends at an angle to the other and into said compartment so that metal pieces deposited in said figure, an interlocking device to protect the latter from injury; a socket in said figure, an interchangeable battery for said socket, and contacts connecting with said device and socket whereby said device may be operated.

14. In a device of the character set forth, means for fastening a wire to a terminal, comprising a plurality of alternately bent prongs immovably arranged with respect to each other wherebetween said wire may be wedged by pulling.

In testimony whereof I have signed my name in the presence of witnesses this second day of August, 1915.

PHILIP E. EDELMAN.

Witnesses:

Rose Edelman,
B. J. Taylor.

1,300,361

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one thereof extends at an angle to the other and into said compartment so that metal pieces deposited in said compartment will not, when shaken, connect said contacts.

7. The combination with a toy figure of a coin compartment, a coin opening formed in said figure and connecting with said compartment, electrical contacts arranged about said opening, a separable current source concealed within said figure and connecting with said contacts, an electrical indicator also connecting therewith, and means to prevent coins within said compartment from connecting said contacts.

8. In a device of the class specified, a pair of contacts one of which is larger than the other, and has a flat surface facing the edge of the other contact at an angle less than 90 degrees thereto, and comprising a coin passage such that a coin connects said contacts when passing therethrough in one direction but cannot connect nor pass said contacts in the reverse direction.

9. In combination, a two part ornamental figure forming a coin compartment and a slot leading thereto, insulated electrical contacts adjacent to said slot, an electrical indicator and current source therefor mounted in said figure and connected to said contacts, means for locking and unlocking said two parts of said figure together and apart without disturbing said electrical parts.

10. In a device of the character set forth, a toy bank provided with electrical indicating means and a pair of control contacts 100 therefore, one of said contacts comprising an angular shaped lip and being insulated from and larger than the other and adapted to be connected by a coin moving therebetween in one direction only.

11. In a device of the class specified, a two part toy figure and means to fasten said parts together whereby a deposit compartment is formed, a slot connecting with said compartment, contacts about said slot, an 110 electrical device and a battery connected to said contacts, and means whereby said toy figure may have its two parts severed to permit access to said compartment without disconnecting said battery and electrical device from said contacts.

12. In a device of the class specified, an ornamental figure including a coin compartment and concealing a current source, an electrical light embodied in said figure to 120 indicate the deposit of coins therein, a coin slot in said figure, contacts adjacent to said slot and connecting with said light and current source, part of said connections being formed by the material source of said figure.

13. In a device of the character set forth, a toy animal figure, an electrically operated device comprising a portion of the anatomy thereof, a deposit compartment formed in said figure and separated from said electric- 130