M. MAISEL.

FIGURE WHEELED TOY.

APPLICATION FILED AUG. 2, 1917.

1,247,126.

Patented Nov. 20, 1917.

2 SHEETS—SHEET 1.

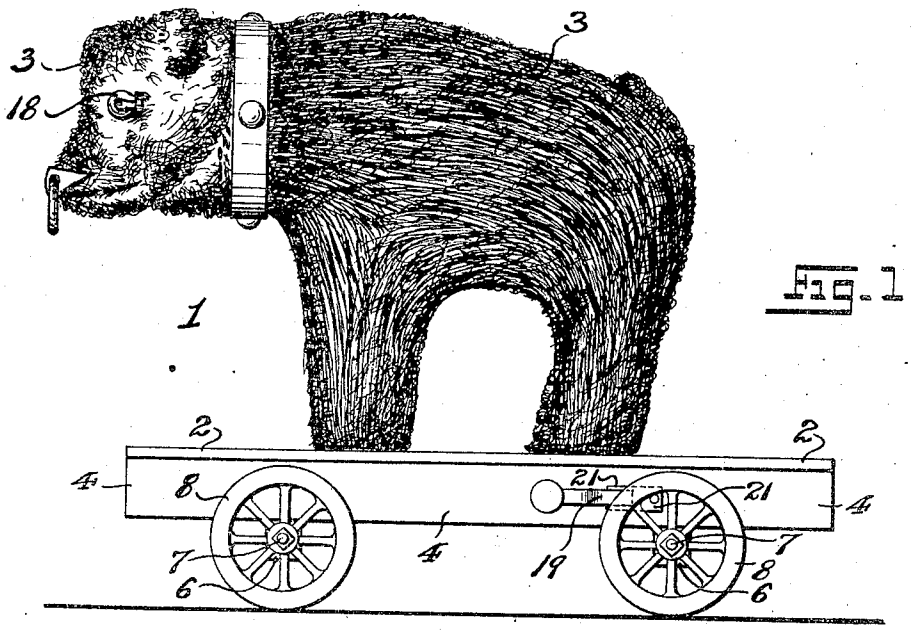


Fig. 1

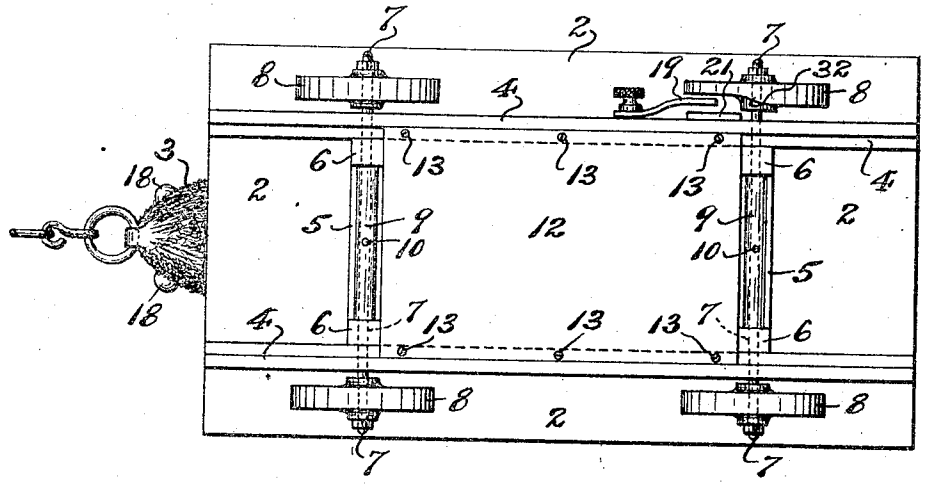


Fig. 2

WITNESSES:

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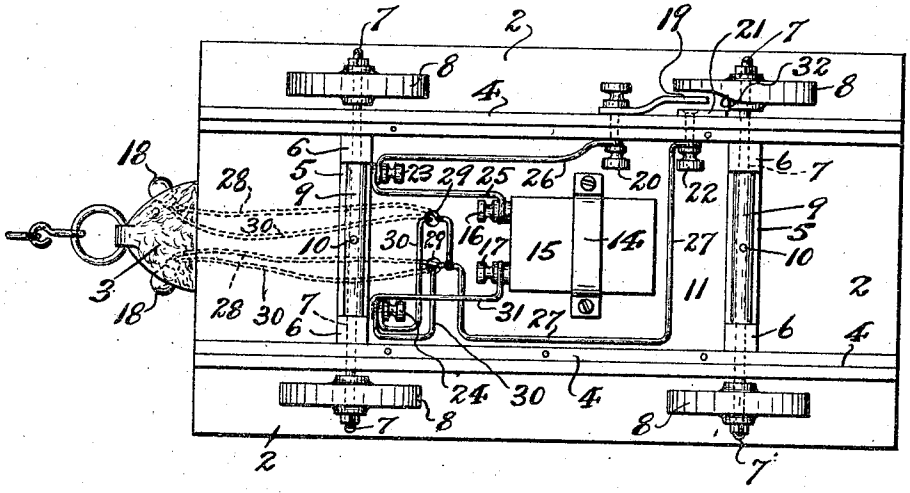


Fig. 3

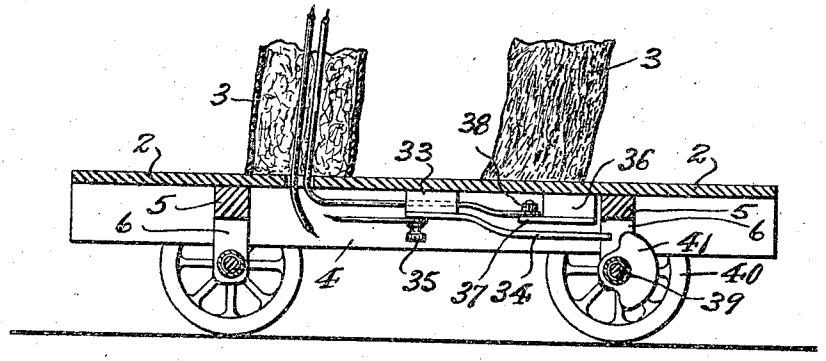


Fig. 4

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UNITED STATES PATENT OFFICE.

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FIGURE WHEELED TOY.

1,247,126. Specification of Letters Patent. Patented Nov. 20, 1917.

Application filed August 2, 1917. Serial No. 184,026.

To all whom it may concern:

Be it known that I, MICHEL MAISEL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Figure Wheeled Toys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention has reference, generally, to improvements in figure wheeled toys; and the invention relates, more particularly to a movable toy figure provided with illuminated eyes and mechanical-electric means for producing an intermittent flashing of said eyes during the movement of the toy.

The invention has for its principal object to provide a toy figure with a wheeled mounting whereby it may be pulled or propelled about, and, furthermore, to provide said toy figure with electrically illuminated eyes, governed by a novel mechanical-electric controlling mechanism whereby the eyes are caused to be intermittently illuminated or flashed as the toy figure is pulled or propelled along.

Other objects of the present invention, not at this time more particularly enumerated, will be clearly understood from the following detailed description of the same.

With the various objects of my present invention in view, the same consists, primarily, in the novel toy hereinafter set forth; and the invention consists, furthermore, in the novel arrangements and combinations of the several devices and parts, as well as in the details of the construction of the same, all of which will be more fully described in the following specification, and then finally embodied in the claims appended thereto.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of the novel toy made according to and embodying the principles of my present invention; Fig. 2 is a bottom view of the same showing a bottom cover for concealing and closing the battery and wiring compartment of the toy; Fig. 3 is a similar view with said bottom cover removed to show the interior of said battery and wiring compartment and its contents; and Fig. 4 is a view showing a slightly modified construction of the mechanical-electric features of my novel toy.

Similar characters of reference are employed in all of the hereinabove described views, to indicate corresponding parts.

Referring now, more particularly to Figs. 1 to 3 inclusive of said drawings, the reference-character 1 indicates the complete toy, made according to and embodying the principles of my present invention, the same comprising a platform 2, upon which is mounted a toy figure or effigy 3 of any desirable form, such, for example, as the bear shown in the drawings, or any other animal, human or other figure.

Said platform 2 is provided on its underside with longitudinally extending laterally spaced depending flanges 4. Secured to the underside of said platform 2, between said flanges 4, and adjacent to the ends of said platform, are transverse supporting members 5, from which depend bearing arms 6, respectively extending downwardly from each end of said supporting members 5. Journaled in said bearing arms, so as to extend laterally therebetween, are axle members 7, the ends of which preferably extend through the respective flanges 4, so as to project laterally from the outer sides of said flanges. Connected with said outwardly projecting ends of said axle members 7 are wheels 8, whereby traction of the platform and its figure may be produced. In order to prevent longitudinal displacement of said axle members 7 relative to said bearing arms 6, I provide each axle member, between its supporting bearing arms 6, with a sleeve 9, secured thereto by a pin 10, or other suitable fastening device.

The space beneath said platform 2, between said flanges 4 and transverse supporting members 5, constitutes a battery and wiring compartment 11, which may be normally closed by a cover-member 12 adapted to engage said flanges 4, and adapted to be secured to the latter by means of screws 13, or any other desired form of fastening devices.

Secured to the underside of said platform 2, within said compartment 11 is a yoke or clip member 14, which serves to receive and support against the underside of said plat-

form, in operative relation to the device, a small electric dry battery 15, adapted to provide a suitable source of electric current. Said battery 15 is provided with a positive pole binding post 16 and a negative pole binding post 17.

The head of the figure or effigy 3 is provided with eyes in the form of small electric incandescent lamps 18, the globes of which may be painted, or otherwise treated, upon their exposed surfaces, to simulate eye-appearance.

Secured to the outer side of one of said flanges 4 adjacent to a rear wheel of the device is a depressible spring switch-arm 19, which is provided with a binding-post 20 extending through said flange 4, so as to be disposed within said compartment 11. Also secured upon the outer side of the same flange 4, in a position to be engaged by the free end of said spring switch-arm 19, when the latter is depressed, is a contact-plate 21, which is also provided with a binding-post 22 extending through said flange 4, so as to be disposed within said compartment 11. Preferably I provide a pair of anchor binding-posts 23 and 24, which are secured upon the inner side of the supporting-member 5 which is forward of said battery 15. An electric circuit wire 25 leads from the binding post 16 of said battery 15 to said anchor binding post 23, and extending between the latter and said binding-post 20 of said switch arm is a delivery circuit wire 26. Connected with said binding-post 22 of said contact-plate 21 is a circuit wire 27, which leads to and is connected with the branch delivery circuit wires 28 which lead to the lamps 18. Preferably said platform 2 is provided with openings or perforations 29 through which said branch wires 28 respectively extend, the latter then being extended internally through the body of the figure or effigy to the lamps 18 connected therewith. Connected with each lamp 18 is a return branch circuit wire 30, which extends internally through the body of the figure or effigy, so as to respectively emerge through the respective openings 29, from whence they extend to and are connected with said second anchor binding-post 24. Extending from said anchor binding-post 24 to the negative pole binding-post 17 of said battery 15 is a return circuit wire 31, through which the above described electric circuit through the lamps 18 is completed.

It will be apparent that so long as the switch-arm 19 is disengaged from, or out of contact with, said contact-plate 21, the lamp circuit is interrupted or broken, and the eyes formed by said lamps 18 will remain unilluminated; when, however, the switch-arm 19 is moved into contact with said contact-plate 21, the circuit will be thereupon closed and the eyes represented by said lamps will be illuminated. In order to procure a flashing of the eyes thus formed, by means of an intermittent illumination of the lamps 18, I provide automatic means for intermittently moving said switch-arm 19 into engagement with said contact-plate 21. Preferably this means comprises a cam-member 32 formed on the inner side of one of the wheels 8, which is adjacent to the switch-mechanism. As the wheel 8 rotates the high part of this cam-member 32 will move into engagement with the free end of said switch-arm 19, thereupon depressing the same, and forcing its free end into contact with said contact-plate 21, until said high part of said cam-member moves out of engagement with said switch-arm, whereupon the tension of the latter will return the same to normal initial position and thus break the electric circuit. It will, therefore, be understood that as the mounted figure or effigy is pulled, or propelled along the ground or floor, each revolution of the wheel 8 carrying the cam-member 32, will cause a brief closing of the electric lamp circuit, thereby illuminating the eyes of the figure or effigy with an intermittent flashing effect, whereby a novel toy is produced, capable of rendering, through the unique effects above described, considerable amusement.

Of course it will be understood that the battery 15 may be readily removed when discharged and replaced by a live cell. It will also be clear that the arrangement of the wiring is subject to various changes, and that I do not limit myself to the arrangement thereof which is above described.

Referring now, more particularly, to Fig. 4 of the drawings, I have illustrated therein a slightly modified construction and location of circuit make and break device and operating cam-member therefor. In this construction I mount upon the underside of the platform 2 an insulating block 33 upon which is secured a rearwardly extending spring switch-arm 34 having the binding post 35 for the connection of the electric circuit wires thereto. Also mounted upon the underside of said platform 2, to the rear of said block 33 is another insulating block 36, upon which is secured a contact-plate 37 adapted to receive the engagement of said spring switch-arm 34, said contact-plate 37, also having a binding-post 38 for the connection of the electric circuit wires thereto. In this case the rear axle-member 39, to which the traction wheels 40 are secured, is rendered rotatable, and fixed on said axle-member 39, so as to rotate therewith, is a cam-member 41, positioned so that upon rotation its high part will engage and press said switch-arm 34 into circuit closing contact with said contact-plate 37. In other respects the device is constructed and operates in substantially the same manner as

already described above in connection with the preferred arrangement thereof.

I am aware that some changes may be made in the various arrangements and combinations of the several devices and parts, as well as in the details of the construction thereof, without departing from the scope of my present invention as set forth in the foregoing specification, and as defined in the appended claims. Hence, I do not limit my invention to the exact arrangements and combinations of the said devices and parts as described in the foregoing specification, nor do I confine myself to the exact details of the construction of said parts as illustrated in the accompanying drawings.

I claim:—

1. In a device of the kind described a wheeled platform, an effigy mounted on said platform, electric lamps forming the eyes of said effigy, an electric battery secured to said platform, said battery being connected in circuit with said electric lamps, a circuit make and break device, and means operated by the movement of said wheeled platform for intermittently operating said circuit make and break device.

2. In a toy device a wheeled platform, an effigy secured upon said platform, electric lamps forming the eyes of said effigy, an electric battery secured to said platform, an electric circuit supplied by said battery including said lamps, a normally open circuit-make and break device included in said circuit, and means operated by the movement of said wheeled platform for intermittently closing said circuit make and break device.

3. In a toy device a wheeled platform, an effigy secured upon said platform, electric lamps forming the eyes of said effigy, an electric battery secured to said platform, an electric circuit supplied by said battery including said lamps, a normally open circuit make and break device included in said circuit, comprising a movable switch member and a stationary contact-plate, and means operated by the movement of said wheeled platform adapted to intermittently move said switch member into electric engagement with said contact-plate.

4. In a toy device a wheeled platform, an effigy secured upon said platform, electric lamps forming the eyes of said effigy, an electric battery secured to said platform, an electric circuit supplied by said battery including said lamps, a normally open circuit make and break device included in said circuit, comprising a movable switch member and a stationary contact-plate, and means operated by the movement of said wheeled platform adapted to intermittently move said switch member into electric engagement with said contact-plate, comprising a rotatable cam-member.

5. In a toy device a platform, longitudinal laterally spaced flanges connected with the underside of said platform, lateral supporting members having depending bearing members connected with the underside of said platform, axle members journaled through said bearing members, wheels on the free ends of said axle members, an effigy supported upon the upper side of said platform, electric lamps forming the eyes of said effigy, an electric battery, means for supporting said battery on the underside of said platform, an electric circuit supplied by said battery including said lamps, a normally open circuit make and break device included in said circuit, and means rotating with said wheels for intermittently closing said circuit make and break device.

6. In a toy device a platform, longitudinal laterally spaced flanges connected with the underside of said platform, lateral supporting members having depending bearing members connected with the underside of said platform, axle members journaled through said bearing members, wheels on the free ends of said axle members, an effigy supported upon the upper side of said platform, electric lamps forming the eyes of said effigy, an electric battery, means for supporting said battery on the underside of said platform, an electric circuit supplied by said battery including said lamps, a normally open circuit make and break device included in said circuit, and comprising a movable switch member and a stationary contact-plate, and cam mechanism connected with certain of said wheels adapted to intermittently move said switch member into circuit closing relation to said contact plate.

7. In a toy device a platform, longitudinally extending laterally spaced flanges connected with the under side of said platform providing a compartment beneath said platform, axle-members, means connected with the underside of said platform for supporting said axle-members, wheels connected with the outer ends of said axle-members exterior of said flanges, an effigy supported upon the upper side of said platform, electric lamps forming the eyes of said effigy, an electric battery, means for supporting said battery within said compartment beneath said platform, an electric circuit supplied by said battery including said lamps, a normally open make and break device included in said circuit, and means operated by the rotation of said wheels for intermittently closing said make and break device.

8. In a toy device a platform, longitudinally extending laterally spaced flanges connected with the under side of said platform providing a compartment beneath said platform, axle-members, means connected with the underside of said platform for supporting said axle-members, wheels connected

with the outer ends of said axle-members exterior of said flanges, an effigy supported upon the upper side of said platform, electric lamps forming the eyes of said effigy, an electric battery, means for supporting said battery within said compartment beneath said platform, an electric circuit supplied by said battery including said lamps, a normally open make and break device included in said circuit, said make and break device being mounted on one of said flanges adjacent to a rear wheel, and a cam-member formed on the inner side of said adjacent rear wheel for intermittently closing said make and break device.

9. In a toy device a platform, longitudinally extending laterally spaced flanges connected with the under side of said platform providing a compartment beneath said platform, axle-members, means connected with the underside of said platform for supporting said axle-members, wheels connected with the outer ends of said axle-members exterior of said flanges, an effigy supported upon the upper side of said platform, electric lamps forming the eyes of said effigy, an electric battery, means for supporting said battery within said compartment beneath said platform, an electric circuit supplied by said battery including said lamps, a normally open make and break device included in said circuit, comprising a depressible spring switch member and a stationary contact plate, said switch-member and said contact-plate being affixed to the outer side of one of said flanges adjacent to a rear wheel, and a cam-member formed on the inner side of said adjacent rear wheel adapted to intermittently engage said switch-member and depress the same into circuit closing contact with said contact-plate as said wheel rotates.

10. In a toy device a platform, longitudinally extending laterally spaced flanges connected with the underside of said platform providing a compartment beneath said platform, axle-members, means connected with the underside of said platform for supporting said axle-members, wheels connected with the outer ends of said axle-members exterior of said flanges, an effigy supported upon the upper side of said platform, electric lamps forming the eyes of said effigy, an electric battery, means for supporting said battery within said compartment beneath said platform, an electric circuit supplied by said battery including said lamps, a normally open make and break device included in said circuit, comprising a depressible spring switch member and a stationary contact plate, said switch-member and said contact-plate being affixed to the outer side of one of said flanges adjacent to a rear wheel, and a cam-member formed on the inner side of said adjacent rear wheel adapted to intermittently engage said switch-member and depress the same into circuit closing contact with said contact-plate as said wheel rotates, and a cover member detachably secured across said flanges to normally close said compartment beneath said platform.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 30th day of July 1917.

MICHEL MAISEL.

Witnesses:
GEORGE D. RICHARDS,
ADOLPH HANSEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."