

A. M. BIRDSALL.
PICTURE TOY.
APPLICATION FILED OCT. 18, 1917.

1,260,133.

Patented Mar. 19, 1918.
2 SHEETS—SHEET 1.

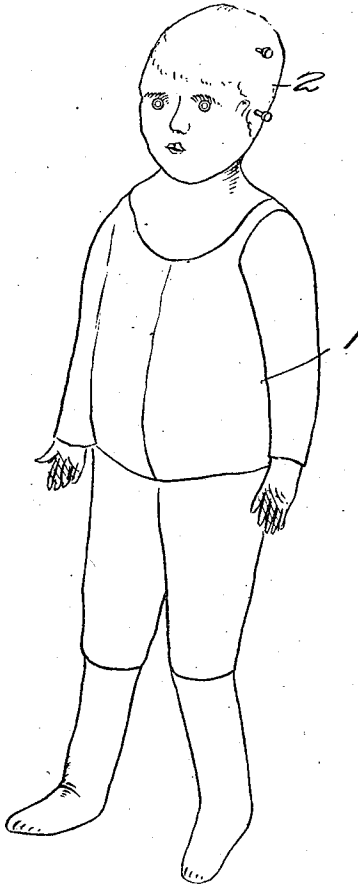


Fig. 1.

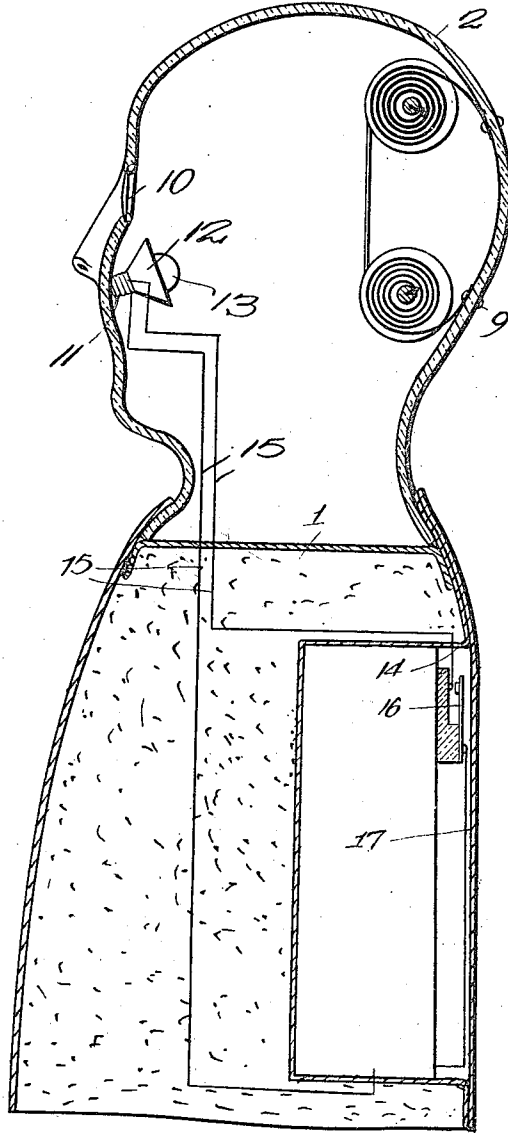


Fig. 2

Arthur M. Birdsall
Inventor

By

Geor. Kimmel.

Attorney

A. M. BIRDSALL.
 PICTURE TOY.
 APPLICATION FILED OCT. 18, 1917.

1,260,133.

Patented Mar. 19, 1918.

2 SHEETS—SHEET 2.

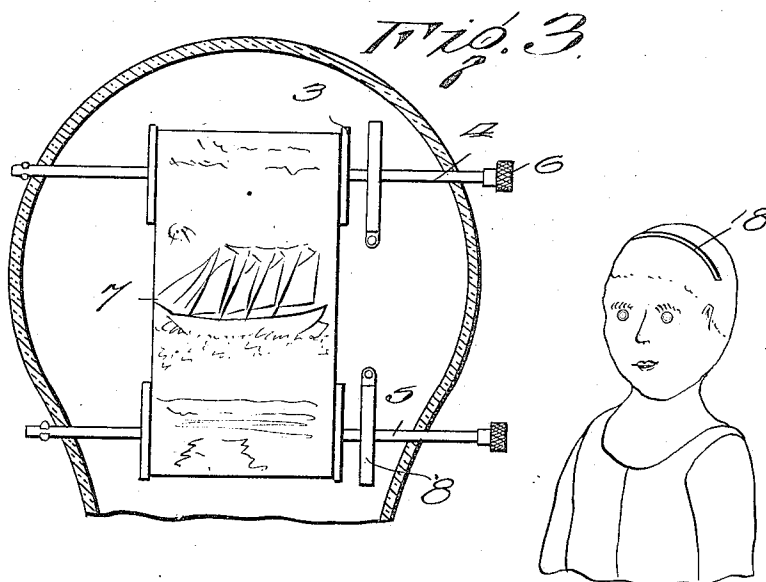
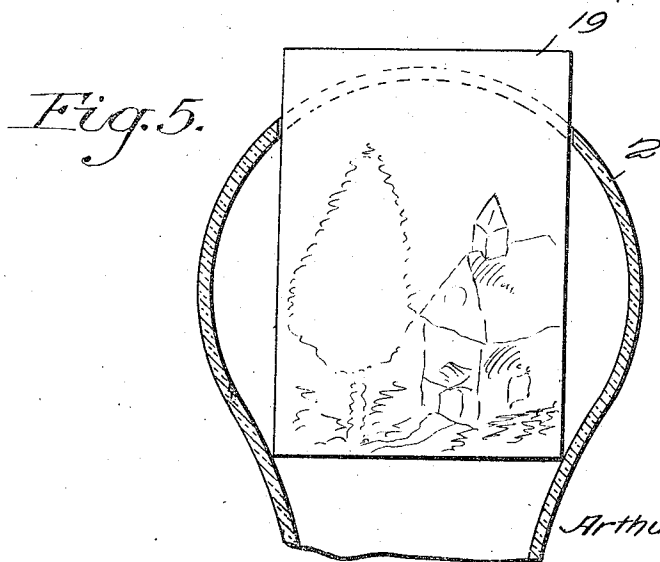


Fig. 4.



Arthur M. Birdsall
 Inventor

By *Geo. P. Kimmel*
 Attorney

UNITED STATES PATENT OFFICE.

ARTHUR M. BIRDSALL, OF MANASQUAN, NEW JERSEY.

PICTURE TOY.

1,260,133.

Specification of Letters Patent. Patented Mar. 19, 1918.

Application filed October 18, 1917. Serial No. 197,254.

To all whom it may concern:

Be it known that I, ARTHUR M. BIRDSALL, a citizen of the United States, residing at Manasquan, in the county of Monmouth and State of New Jersey, have invented certain new and useful Improvements in Picture Toys, of which the following is a specification.

This invention relates to figure toys and it is the dominant object of the invention to provide a doll or like toy having means arranged in the head thereof whereby pictures can be supported and moved therein to bring the same into the line of vision, thus, affording an extremely novel and instructive toy for children.

Another and equally important object of the invention is to provide an improved means for supporting the pictures in the head of the toy, in order that the same may be brought into view as it is desired.

It is also an object of the invention to provide the toy with novel circuit closing means whereby an electric lamp may be energized and the light rays therefrom projected onto the pictures to illuminate the same whereby they may be readily seen.

Other objects will be in part obvious and in part pointed out hereinafter.

All of the foregoing together with additional advantageous details and arrangement of parts of the preferred embodiment of my invention will be clear from the specific description hereinafter contained, when read in connection with the accompanying drawings forming part thereof, wherein said embodiment of the invention is illustrated for the purpose of facilitating a full understanding of the present improvements.

In the drawings:—

Figure 1 is a perspective of the improved toy.

Fig. 2 is a fragmentary vertical section therethrough,

Fig. 3 is a fragmentary section through the head of the toy,

Fig. 4 is a fragmentary detail in perspective of a slightly modified form of the toy, and,

Fig. 5 is a vertical section through the head of the same, showing the arrangement of the picture therein.

Similar reference characters refer to similar parts throughout the several views of the drawings.

Having more particular reference to the drawings, 1 represents the figure toy in its entirety, the head 2 of which is formed of suitable plastic material and is hollow whereby spaced superposed pulleys 3 may be arranged therein and rotatably supported on shafts 4 and 5, the extremities of which are journaled in suitable bearings formed in the opposite sides of the said head 2. Knurled finger pieces 6 are secured to the extended ends of the shafts 4 and 5 and serve for an obvious purpose. Engaged with the several pulleys 3 is a picture strip 7, the same, as will be understood, being adapted for arrangement about either of the said pulleys, by rotating the shaft 4 or the shaft 5. Opposed coiled springs 8 are secured to the head 2 as at 9 and are arranged about the shafts 4 and 5 whereby the same will be normally maintained under tension thereby and as a consequence, the picture strip 7 held taut between the several pulleys 3. In this connection, it is to be noted, that the tension of the upper coiled spring 8 is greater than that of the lower spring, hence, the picture strip 7 will be caused to automatically reroll upon the upper pulley 3 when the knurled piece 6 carried on the shaft 5 is released.

Openings are formed in the face of the head 2 and receive transparent eyes 10 therein, which eyes, if desired, may be colored with the exception of the centers thereof, thus, allowing an unobstructed view of the picture strip 7. Further, the eyes 10 may be formed of translucent material of a character such as will permit the picture strip to be clearly and distinctly viewed through the same.

Fixedly mounted at a suitable point in the head 2 is an incandescent lamp socket 11 having a reflector 12 secured thereto, whereby the light rays admitted from an incandescent lamp 13 turned into engagement with the said socket will be projected forwardly onto the picture strip 7, thereby illuminating the same and allowing it to be readily seen by a child or person peering through the eyes 10 of the toy.

A battery 14 is arranged in a suitable compartment formed in the back of the doll and has connection with the lamp socket by means of electrical conductors 15. To permit the circuit through the incandescent lamp 13 to be closed at will by the user of

the toy, a spring contact arm 16 is connected to one terminal of the battery 14 and is adapted to be engaged with the remaining terminal of the said battery. To insulate this contact arm 16, I preferably arrange over the compartment containing the battery, a felt or similar strip 17, securing the marginal portions thereof to the back of the doll by stitching or other suitable means. Thus, when it is desired to illuminate the picture strip 7, the contact arm 16 is depressed thereby closing an electrical circuit through the incandescent lamp 13. Obviously, the various pictures on the strip 7 may be brought in position alining with the transparent eyes 10 by turning the lower shaft 5 and causing the said strip to be rolled upon the lower pulley 3. However, as hereinbefore stated, when the shaft 5 is released the picture strip will be immediately returned to the upper roll 3 due to the engagement of the coiled spring 8 therewith. Thus, the toy is reset for further operation. In the Figs. 4 and 5 I have shown a slightly modified form of the figure toy, illuminating the reel and web structure employed in the first embodiment for supporting the pictures. In this particular form, the hollow head 2 of the toy is provided with a transversely disposed slot or way 18 through which a card 19 having a picture applied to one face thereof passed, the lower edges of the picture, resting upon the base of the hollow head as clearly shown in the Fig. 5. With this construction, the picture arranged on the card 19 may be changed by merely removing the card from the slot 18

and substituting others therefor, the picture being caused to automatically adjust itself due to the engagement of the lower edges of the card with the base of the hollow head 2.

It may be here noted, that the figure toy employed in connection with my invention may be in form of a person, animal or other figures, such as conditions or preference may dictate and therefore, such modifications as are within the scope of my claims, I consider within the spirit of my invention.

I claim.

1. In a figure toy, transparent eyes, picture supporting means arranged in the head thereof in line with said eyes, and means for illuminating said pictures.

2. In a figure toy having transparent eyes, picture supporting means arranged in the head thereof in line with said eyes.

3. In a figure toy, transparent eyes, picture supporting means arranged in the head of said toy, means for illuminating said pictures, and circuit closing means arranged adjacent the back of the toy for operating the illuminating means at times.

4. In a figure toy, transparent eyes, pulleys rotatably mounted in the head of said toy, a picture strip engaged with said pulleys, means for illuminating the strip, and circuit closing means arranged adjacent the back of the toy and adapted to operate the illuminating means, at times.

In testimony whereof, I affix my signature hereto.

ARTHUR M. BIRDSALL.

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