

UNITED STATES PATENT OFFICE.

AUBREY D. McCROSKY, OF OAKLAND, CALIFORNIA, ASSIGNOR OF ONE-HALF TO
BYNUM B. McCROSKY, OF OAKLAND, CALIFORNIA.

DOLL.

1,395,984.

Specification of Letters Patent.

Patented Nov. 1, 1921.

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To all whom it may concern:

Be it known that I, AUBREY D. McCROSKY, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Dolls, of which the following is a specification.

This invention relates to dolls having mechanically operated eyes, and is an improvement over my Patent Number 1,280,055.

The principal object of this invention is to enable the eye operating mechanism to be operated by either a side or a forward and backward motion.

Referring to the drawing which forms a part of this specification:

Figure 1 is a vertical sectional view of a doll head, with my improved mechanism in position therein.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1.

Fig. 4 is a bottom view of the knurled actuating wheel.

Referring more particularly to the drawing, numeral 1 indicates a hollow head having an opening 2 in the top thereof. Positioned in the opening 2 is an adjustable clamp 3 from which a bracket 4 depends. Pivoted to the bracket 4 are two weights 5 and 6 adapted to oscillate at right angles to each other. The links 7 and 8 to which the weights 5 and 6 are respectively secured extend through the bracket 4 and have pivoted to their upper ends the pawls 9 and 10 respectively. The pawls 9 and 10 engage the knurled surface of a wheel 11 which is journaled in a bearing on the bracket 4.

Extending from the wheel 11 is a pin 12 which is adapted to engage the cam 13 to operate the eyes as will be shown. The cam 13 is secured to a plate 14 which is journaled in the head of the doll and to which the eyes 15 are secured. Stops 16 and 17 limit the movement of the eyes relative to the sockets. A boss 18 on the cam 13 tends to hold the pin 12 and prevent it from going off of the cam and thus open the eyes. With gentle

rocking the eyes will remain closed, but a sharp jerk will release the pin 12 from the boss 18 and the eyes will open.

The operation of my invention is as follows: When the doll is in a horizontal position the pawls 9 and 10 engage the wheel 11. A side motion, or an end to end motion, will oscillate either of the weights 5 or 6, which will oscillate the pawls 9 or 10 and rotate the wheel 11. The pin 12 will now engage the cam 13 to raise it and thus move the iris out of registration with the eye sockets and thus give the doll the appearance of sleeping. When the doll is raised in a vertical position, the pawls 9 and 10 disengage the wheel 11 and a slight shake will cause the iris to again register with the sockets, due to the weight of the cam 13.

Having described my invention, I claim:

1. In combination with a hollow doll head, of eyeballs fixed together and pivotally mounted and having irises to register with the sockets, a cam extending rearwardly of the eyes, two weighted levers pivotally mounted to swing in horizontal planes at right angles to each other, a knurled wheel, a pawl pivoted to each of the weighted levers and adapted to engage the knurled wheel, a pin carried by the knurled wheel for engaging the cam, and move the irises out of engagement with the eye sockets.

2. In combination with a hollow doll head, of eyeballs fixed together and pivotally mounted and having irises to register with the sockets, a cam extending rearwardly of the eyes, two weighted levers pivotally mounted to swing in horizontal planes at right angles to each other, a knurled wheel, a pawl pivoted to each of the weighted levers and adapted to engage the knurled wheel, a pin carried by the knurled wheel for engaging the cam, and move the irises out of engagement with the eye sockets, and means on said cam for preventing the pin on the knurled wheel from easily escaping the cam.

In testimony whereof I affix my signature.

AUBREY D. McCROSKY.