

932,962.

Patented Aug. 31, 1909.

Fig. 1.

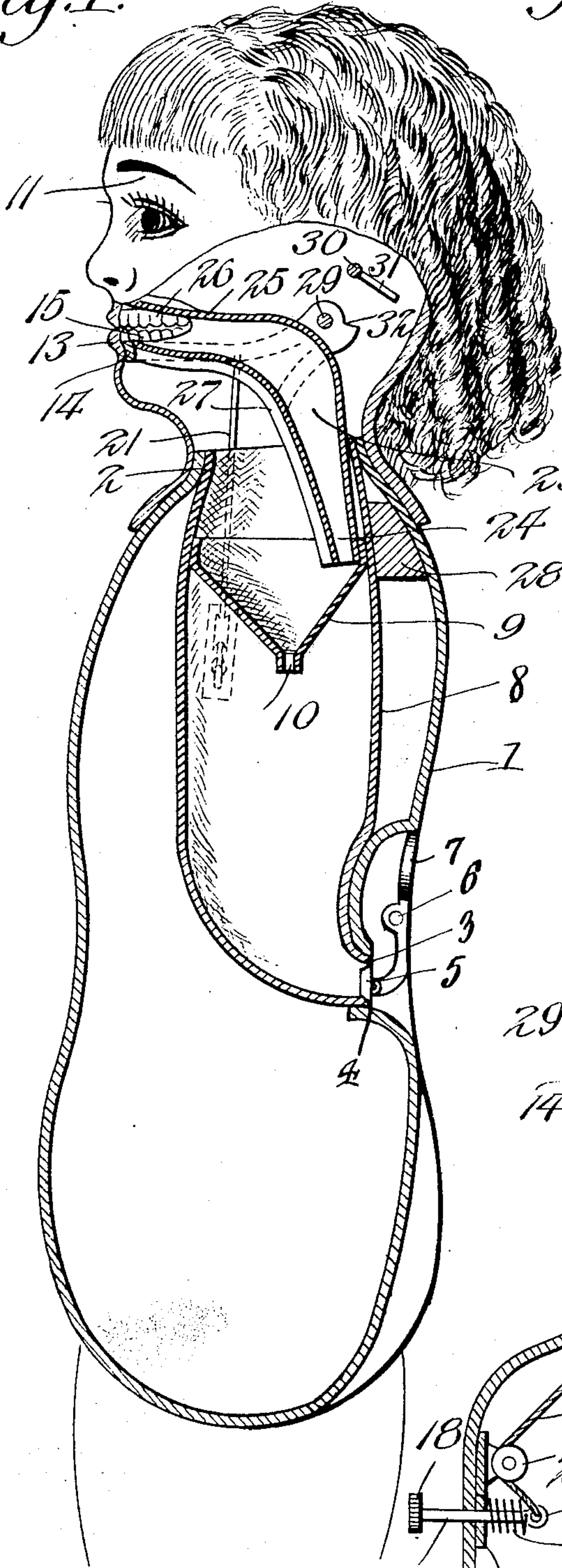


Fig. 2.

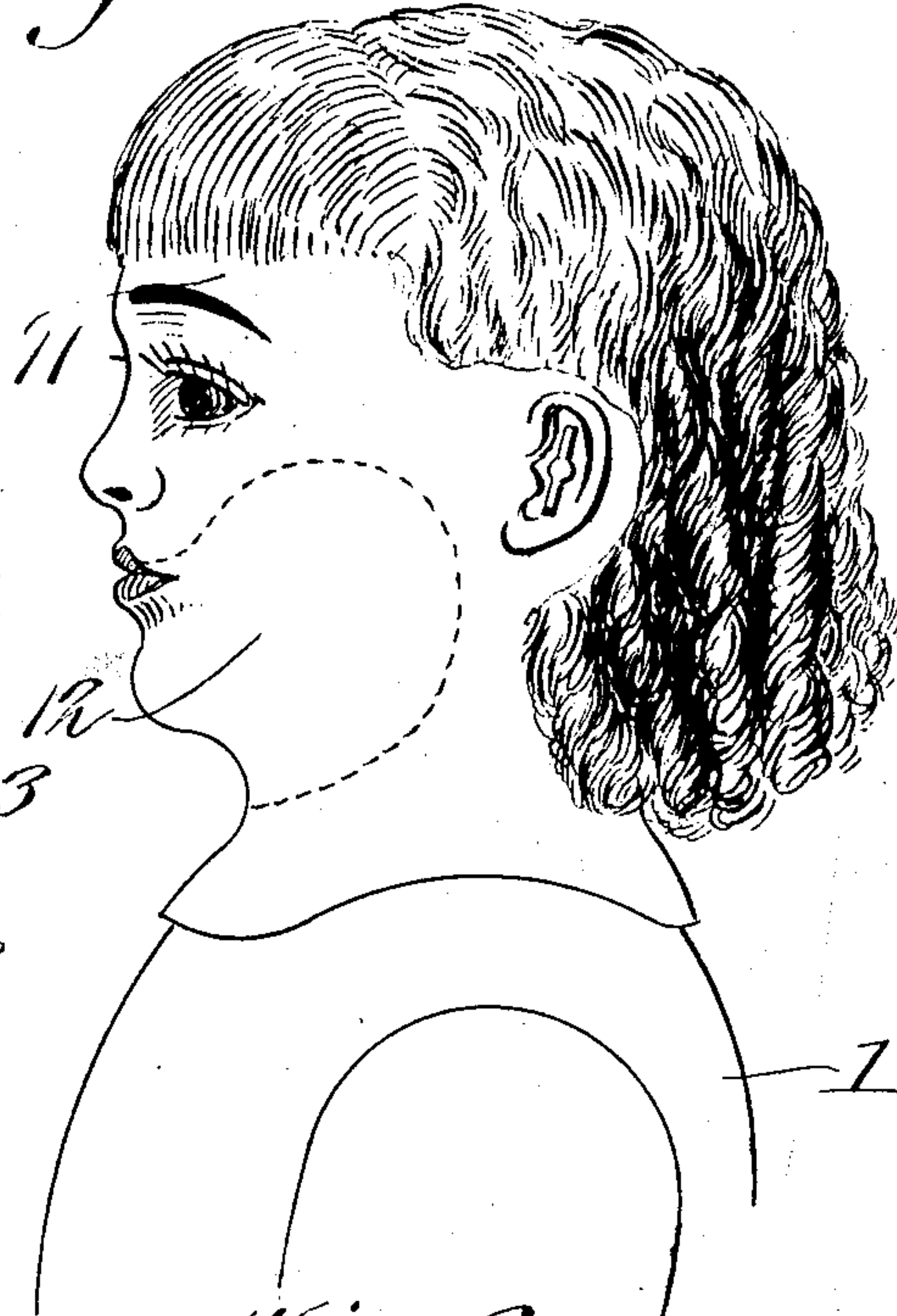
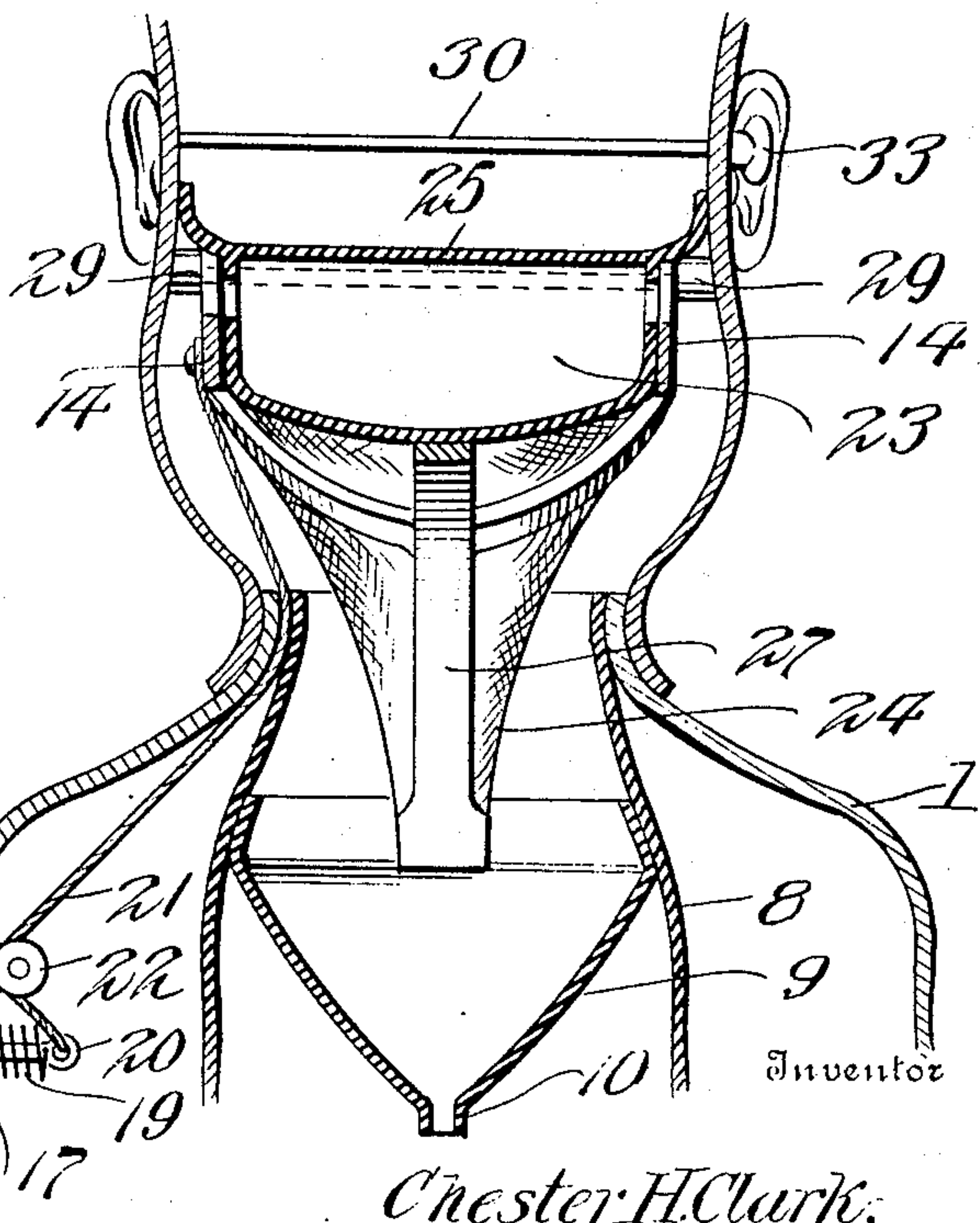


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## FIGURE TOY.

932,962.

Specification of Letters Patent.

Patented Aug. 31, 1909.

Application filed April 24, 1908. Serial No. 429,079.

*To all whom it may concern:*

Be it known that I, CHESTER H. CLARK, a citizen of the United States of America, residing at Rockton, in the county of Winnebago and State of Illinois, have invented new and useful Improvements in Figure Toys, of which the following is a specification.

My invention relates to figure toys, more particularly to dolls, and its primary object is the provision of a doll to which a child may feed water, tea or other liquid during play.

A further object of my invention is the provision of a doll whose mouth will automatically close after it has been fed a certain amount of water.

A further object of my invention is the provision of a doll whose throat and cheeks will during the closing of the mouth simulate the human throat and cheek movements which are incident to swallowing.

A still further object of my invention is the provision of a doll of the above stated character which is simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter fully described, claimed and illustrated in the accompanying drawing, wherein:

Figure 1 is a sectional view taken on a plane extending centrally and longitudinally through the body and a portion of the head of a doll constructed in accordance with my invention. Fig. 2 is a side elevation of the doll, and Fig. 3 is a sectional view taken on a plane extending centrally and longitudinally through portions of the body and head of the doll at right angles to the plane in which Fig. 1 is taken.

Referring to the drawing by reference numerals, 1 designates the body of the doll which is hollow and rigid, and which has its upper end provided with an opening 2 and its lower end with an opening 3. The body is formed to provide an undercut annular flange 4 about the opening 3, which is adapted to be normally closed by means of a valve 5 secured to a lever 6 pivotally mounted upon the body 1. The lever is held in position to retain the valve 5 normally seated by means of a leaf spring 7 which is secured to the body 1. A reservoir 8 is located within

the body 1 and is preferably constructed of rubber. The upper or inlet end of the reservoir 8 is secured to the inner wall of the opening of the body 1, while the lower or discharge end thereof is secured to the flange 4, the contents of the reservoir being adapted to pass through the opening 3 when the valve 5 has been lifted from its seat. The upper or inlet end of the reservoir 8 is closed by an inverted cone-shaped member 9, said closure or member being provided at its apex with a tubular extension 10.

The head 11 of the doll is secured to the body 1 in any suitable manner, and the cheeks, chin and throat 12 thereof are constructed of rubber or any other flexible material suitable for the purpose. In practice, the cheeks, chin and throat 12 will be so secured to the other portions of the head of the doll and of such color as not to leave any line of demarcation. The rubber forming the parts 12 is suitably thickened and colored to form the lower lip 13. A U-shaped frame 14 is pivotally mounted at its ends within the head of the doll, and is secured to the lower lip 13. The frame 14 carries the lower set of teeth 15 and is adapted to be manipulated to open and close the mouth of the doll. The frame 14 is manipulated to open the mouth of the doll through the medium of a push pin 16 which is slidably mounted in an opening 17 formed in one shoulder of the doll. The outer end of the pin 16 is formed with an enlarged head 18 and mounted upon the pin within the body of the doll is a contractile spring 19, said spring abutting at one end against the inner surface of the body of the doll and its other end against the enlarged perforated end 20 of the pin. A cord or other flexible member 21 is secured at one end to the frame 14 and at its other end in the perforation of the end 20 of the pin 16. The member 21 passes under a pulley 22 secured within the body of the doll. The connection between the pin 16 and the frame 14 is such that when the pin is moved inwardly, the mouth of the doll will open, the pin being returned to its normal position by the spring 19. The location of the pin in the shoulder of the doll adapts it to be readily engaged for manipulation.

A receptacle 23 is secured at its upper end to the frame 14 and is adapted to receive the liquid fed to the doll. The receptacle terminates in a reduced discharge nozzle.



zle 24 which is located within the upper open end of the reservoir 8. One wall of the receptacle 23 is continued to provide a member 25 which is secured to the head of the doll to form the roof of its mouth. The upper set of teeth 26 may be secured to the member 25 or to the head of the doll. An arm 27 is secured to the frame 14 and to the discharge nozzle 24, as fully disclosed in Fig. 3 of the drawing. When the frame 14 is moved to open the mouth of the doll, the arm 27 clamps the discharge nozzle 24 between itself and a block 28 to close the nozzle. The member 14 has such frictional engagement with its journals 29 that the jaw will normally remain in its opened or closed positions, as will be readily understood. As the discharge nozzle is closed when the mouth is opened, the liquid fed to the doll, that is, the liquid poured into the receptacle 23 will be retained in the receptacle. When the weight of the liquid in the receptacle is great enough to overcome the frictional engagement of the frame 14 with its journals 29, it will pass through the discharge nozzle 26, thereby forcing the arm 27 in the direction to close the mouth of the doll. During the closing of the mouth of the doll, its throat and cheeks will simulate those movements of the human throat and cheeks incident to swallowing, as they are formed of flexible material. The liquid passing from the receptacle 23 will enter the member 9 through the extension 10 and will pass from the member into the reservoir 8. When it is desired to discharge the liquid from the reservoir 8, the valve 5 is opened by pressure applied to the lever 6. Under normal conditions the tubular extension 10 is collapsed thereby cutting off communication between the member 9 and the reservoir. The weight of the liquid in the member 9 moves the walls apart and permits liquid to pass into the reservoir. As the extension 10 is collapsed under normal conditions, liquid cannot escape from the reservoir on the reversal of the doll.

A rod 30 is pivotally mounted in the head of the doll and is provided with an extension 31 adapted to be moved into engagement with a shoulder 32 formed on the frame 14 to secure the mouth of the doll against opening. Operating heads 33 are formed on the ends of the rod 30, and are preferably located in the ears of the doll.

It should be apparent from the above description taken in connection with the accompanying drawing, that I provide a doll from which a child may derive considerable pleasure, as it may feed liquid to the same during play; that the doll is simple, durable and efficient; and that it can be manufactured and sold at a comparatively low cost.

Having fully described and illustrated my invention, what I claim is:

1. A doll including a movable jaw, a reservoir arranged for communication with the mouth of the doll, and means operable by the movement of the jaw in one direction to cut off communication between the reservoir and the mouth of the doll. 70

2. A doll including a movable jaw, a reservoir arranged for communication with the mouth of the doll, and means operable by the movement of the jaw in one direction to cut off communication between the reservoir and mouth of the doll, said means being adapted to be operated by the movement of the jaw in the reverse direction to establish communication between the mouth of the doll and the reservoir. 80

3. A doll including a movable jaw, a reservoir, a receptacle communicating with the mouth of the doll and discharging into the reservoir, and means operable by the movement of the jaw in one direction to close the discharge end of the receptacle, said means being adapted to be operated by the movement of the jaw in the reverse direction to open the discharge end of the receptacle. 90

4. A doll including a movable jaw, a reservoir, a receptacle communicating with the mouth of the doll and discharging into the reservoir, and means connected to the jaw and to the receptacle, said means closing the discharge end of the receptacle when the jaw is open and adapted to be operated by an accumulation of liquid in the receptacle to close the jaw and open the discharge end of the receptacle. 100

5. A doll including a movable jaw, a reservoir arranged for communication with the mouth of the doll, means operable by the movement of the jaw in one direction to cut off communication between the reservoir and the mouth of the doll, and means by which the jaw may be opened. 105

6. A doll including a movable jaw, a reservoir arranged for communication with the mouth of the doll, means operable by the movement of the jaw in one direction to cut off communication between the reservoir and the mouth of the doll, means by which the jaw may be opened, and means by which the jaw may be locked against opening. 115

7. A doll including a mouth, a hollow body provided with an opening, a reservoir arranged within the body and having an outlet opening registering with the opening in the body, a valve controlling the outlet opening of the reservoir, and a receptacle communicating with the mouth of the doll and discharging into the reservoir. 120

8. A doll including a movable jaw, a hollow body provided with an opening, a reservoir arranged within the body and having an outlet opening registering with the opening in the body, a valve controlling the outlet of the reservoir, a receptacle communicating with the mouth of the doll and dis- 130



charging into the reservoir, and means operable on the opening of the mouth of the doll to close the discharge end of the receptacle.

5 9. A doll including a movable jaw, a hollow body provided with an opening, a reservoir arranged within the body and having an outlet opening registering with the opening in the body, a valve controlling the outlet of the reservoir, a receptacle communicating with the mouth of the doll and discharging into the reservoir, means operable on the opening of the mouth of the doll to close the discharge end of the receptacle, 10 and means by which the mouth of the doll can be opened. 15

10. A doll including a movable jaw, a hollow body provided with an opening, a reservoir arranged within the body and having an outlet opening registering with the opening in the body, a valve controlling the outlet of the reservoir, a receptacle communicating with the mouth of the doll and discharging into the reservoir, means operable 20 on the opening of the mouth of the doll to close the discharge end of the receptacle, means by which the mouth of the doll can be opened, and means by which the mouth of the doll can be locked against movement. 25

30 11. A doll including a movable lower jaw and having its cheeks, chin and throat formed of flexible material, a portion of said material being formed to provide the lower lip of the doll.

35 12. A doll including a mouth, a reservoir, a closure for one end of the reservoir, said closure discharging into the reservoir, and a

receptacle communicating with the mouth of the doll and discharging into the said closure.

13. A doll including a mouth, a movable jaw, a reservoir, a closure for one end of the reservoir, said closure discharging into the reservoir, a receptacle communicating with the mouth of the doll and discharging into said closure, and means operable on the opening of the mouth of the doll to close the discharge end of the receptacle. 40 45

14. A doll including a head having its cheeks and chin and throat constructed of flexible material, the flexible material being formed to provide the lower lip, and a frame pivotally mounted in the head of the doll, the lower lip being secured to the frame. 50

15. A doll including a head having its cheeks and chin and throat formed of flexible material, the material being formed to provide the lower lip, a frame pivotally mounted in the head, the lower lip being secured to the frame, a lower set of teeth secured to the frame, and an upper set of teeth secured to the head. 55 60

16. A doll including a head having a movable lower jaw, and a rod pivotally mounted in the head and provided with an extension, said rod being adapted to be moved to throw the extension into engagement with the lower jaw. 65

In testimony whereof I affix my signature in presence of two witnesses.

CHESTER H. CLARK.

Witnesses:

EARLE J. POLLOCK,  
WM. FORWARD.