Jan. 2, 1940. J. I. GORBEA ET AL 2,185,190

DOLL

Filed Nov. 23, 1938

Fig. 1.

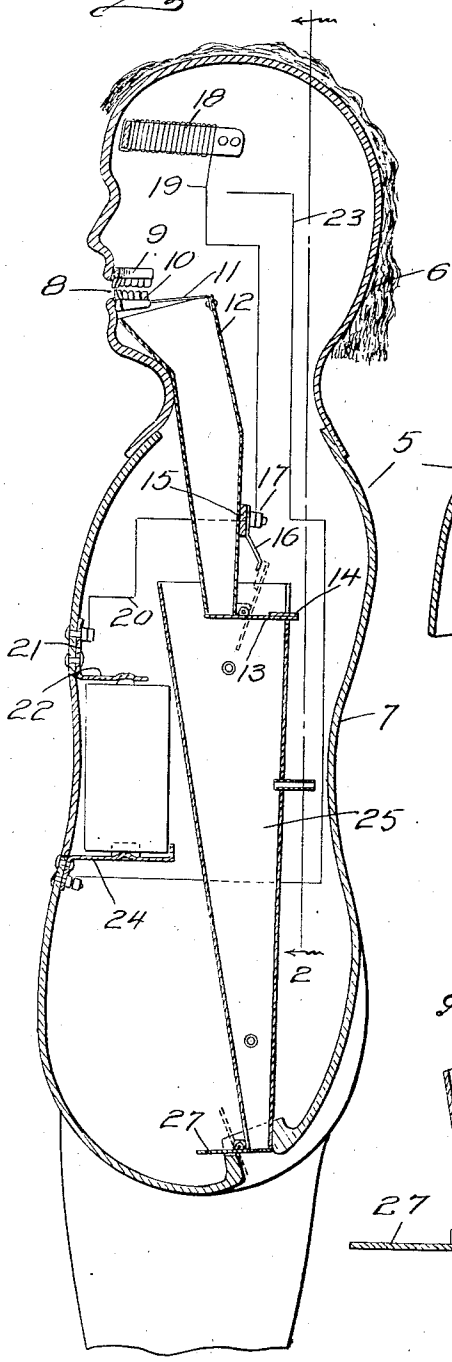


Fig. 2.

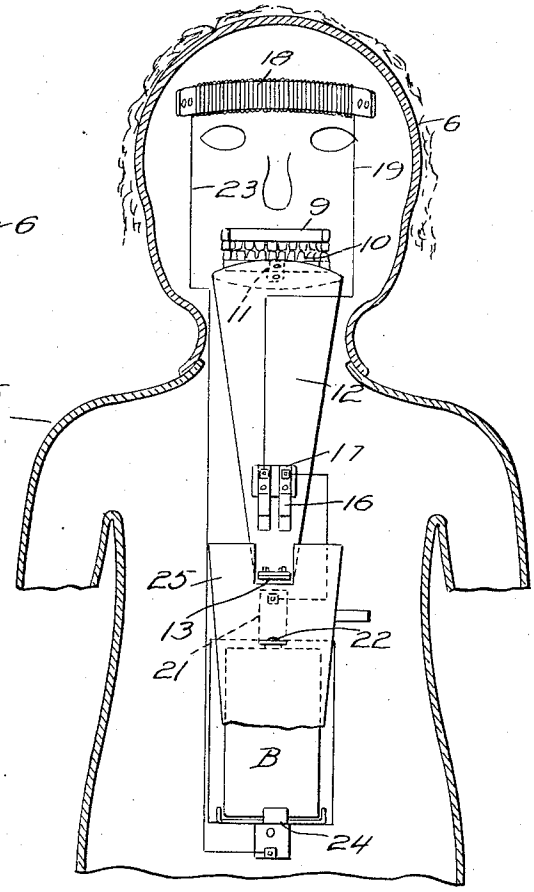


Fig. 4.

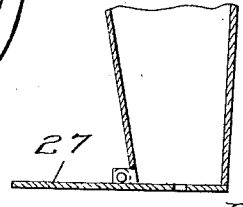
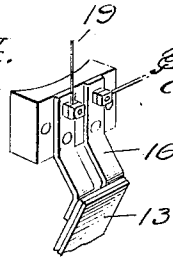


Fig. 3.



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2,185,190

DOLL

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San Juan, Puerto Rico

Application November 23, 1938, Serial No. 242,099

3 Claims. (Cl. 46—141)

Our invention relates to improvements in dolls and has as one of the principal objects thereof the provision of a doll so constructed and arranged as to simulate a fever condition therein and provided with means for simulating an eating operation which coacts with means to produce the apparent fever condition.

Another object of our invention is to provide a doll of the character described which is simple in construction, durable in use, efficient in operation and economical in manufacture.

Other objects and advantages will be apparent from the following description, appended claims and annexed drawing.

Referring to the drawing wherein like reference characters designate like parts throughout the several views:

Figure 1 is a vertical sectional view of a doll constructed in accordance with our invention.

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

Figure 3 is a detail perspective view of an electric switch employed in connection with the means for simulating the fever.

Figure 4 is an enlarged detail sectional view of the lower end of the lower tube illustrating the valve member connected thereto.

In practicing our invention, we provide a doll 5, modeled in the form of a child and fashioned with head and body sections 6 and 7 respectively The head section 6 is fashioned with a mouth opening 8. Within said head section, adjacent said mouth opening, are sets of upper and lower teeth 9 and 10 respectively. The upper set of teeth 9 are fixed to the inner wall of the head and the lower set of teeth 10 are mounted on the outwardly extending end of a spring arm 11, the inwardly extending end of which is attached to the upper end of an inverted conical shaped tube 12.

The apex end of said tube is fixed in the body section and has pivotally connected thereto a weight operated valve member 13 normally closing the lower end of the tube. The valve member is provided with an arm having fixed thereon a weight and which constitutes a switch blade 14. Secured to said tube 12, an appreciable distance above the lower end thereof, is a block 15 of insulating material on which is mounted a pair of spaced contact resilient fingers 16, the lower ends of which are disposed toward the valve member 13 and are adapted to be engaged by the blade 14 to effect electrical connection between the fingers 16.

Each of the fingers 16 is provided with binding posts 17, one of which is connected to one end of a heating element 18 by a wire 19 and the other to one terminal of a battery B by means of a wire 20 secured to a buss bar 21 fixed to the body section and having a resilient arm 22 engaging said terminal of the battery. The heating element 19 is secured to the inner wall of the head section 6 and is disposed adjacent the forehead of the doll.

The opposite end of said heating element is connected to the opposite terminal of the battery B by means of an electric wire 23 connected to a buss bar 24 fixed to the inner wall of the body section and connected to said opposite terminal. The buss bar serves as a bracket for supporting the battery within the doll and coacts with the arms 22 to maintain proper contact between the buss bars 21 and 24 and the battery terminals.

Surrounding the lower end of the tube 12 is the upper end of an inverted conical tube 25 secured within and to the body section and having a lower end terminating adjacent the lower end of the body section. The lower end of the body section is provided with an aperture through which the lower end of the tube 25 extends. The lower end of the tube 25 is normally closed by a weight operated valve 27 pivoted to said lower end.

In operation, food or an imitation thereof is inserted within the mouth opening 8 and between the teeth 9 and 10, and said food accumulates within the lower end of the tube 12 until the weight of the accumulated mass is sufficient to actuate the valve member 13 to open position and dispose the outer end of the arm thereof upwardly and cause engagement of the blade 14 with the fingers 16. When the switch blade thus engages the fingers 16, the electric circuit through the battery and heating element will be completed and said heating element will operate to heat the forehead of the doll and simulate a fever condition therein. Upon operation of the valve member 13, food will be discharged from the tube 12 into the lower tube 25 and when the weight of said food therein is sufficient, the valve member 27 will be operated to open position to permit the food to discharge from said tube 25.

From the foregoing it will be apparent that we have provided a doll wherein upon an appreciable amount of food or the like being introduced therein serves to actuate a heating device whereby to simulate a fever in said doll and thus give the impression of illness due to excess eating.

It is to be understood that various changes and modifications may be resorted to in the construc-

tion and arrangement of parts without departing from the spirit of the invention or scope of the appended claims.

What we claim is:

1. A doll of the class described, comprising, head and body sections, said head section fashioned with a mouth opening, a heating element mounted in said head section, an upper tube mounted within said body section and having an upper end extending into said head section and arranged subjacent said mouth opening for receiving said food, a lower tube mounted in said body section and having an upper end surrounding the lower end of said upper tube, a weight operated valve member pivotally connected to said upper tube and normally closing said lower end thereof, said valve member equipped with a switch blade, a pair of spaced contact fingers carried by said upper tube and insulated therefrom, said fingers engageable by said switch blade upon operation of said valve to open position by the weight of food received therein whereby to close an electric circuit connected through said fingers to said heating element for operating the latter to simulate a fever condition in said doll.

2. A doll of the class described, comprising, head and body sections, said head section fashioned with a mouth opening, a heating element mounted in said head section, movable teeth about said mouth opening and operable upon introduction of food through said opening to simulate an eating operation, an upper tube mounted within said body section and having an upper end extending into said head section and arranged subjacent said mouth opening for receiving said food, a lower tube mounted in said body section and having an upper end surrounding the lower end of said upper tube, a weight operated valve member pivotally connected to said upper tube and normally closing said lower end thereof, said valve member equipped with a switch blade, a pair of spaced contact fingers carried by said upper tube and insulated therefrom, said fingers engageable by said switch blade upon operation of said valve to open position by the weight of food received therein whereby to close an electric circuit connected through said fingers to said heating element for operating the latter to simulate a fever condition in said doll, and a weight actuated valve member pivoted to the lower end of said lower tube and normally closing the latter and operable by food discharged from said upper tube to open position whereby to permit the removal of food from said body section.

3. A doll equipped with an esophagus-like tube communicating with the mouth and extending downwardly therefrom, a heating element mounted within said doll, a valve member within said tube and normally maintained in closed position and operable to open position by food-like material discharged into said tube through said mouth, and means connected to said element and said valve member for activating said element when said valve member is operated to open position whereby to give the illusion of a feverish condition in said doll.

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