

962,154.

Patented June 21, 1910.

3 SHEETS—SHEET 1.

Fig. 1.

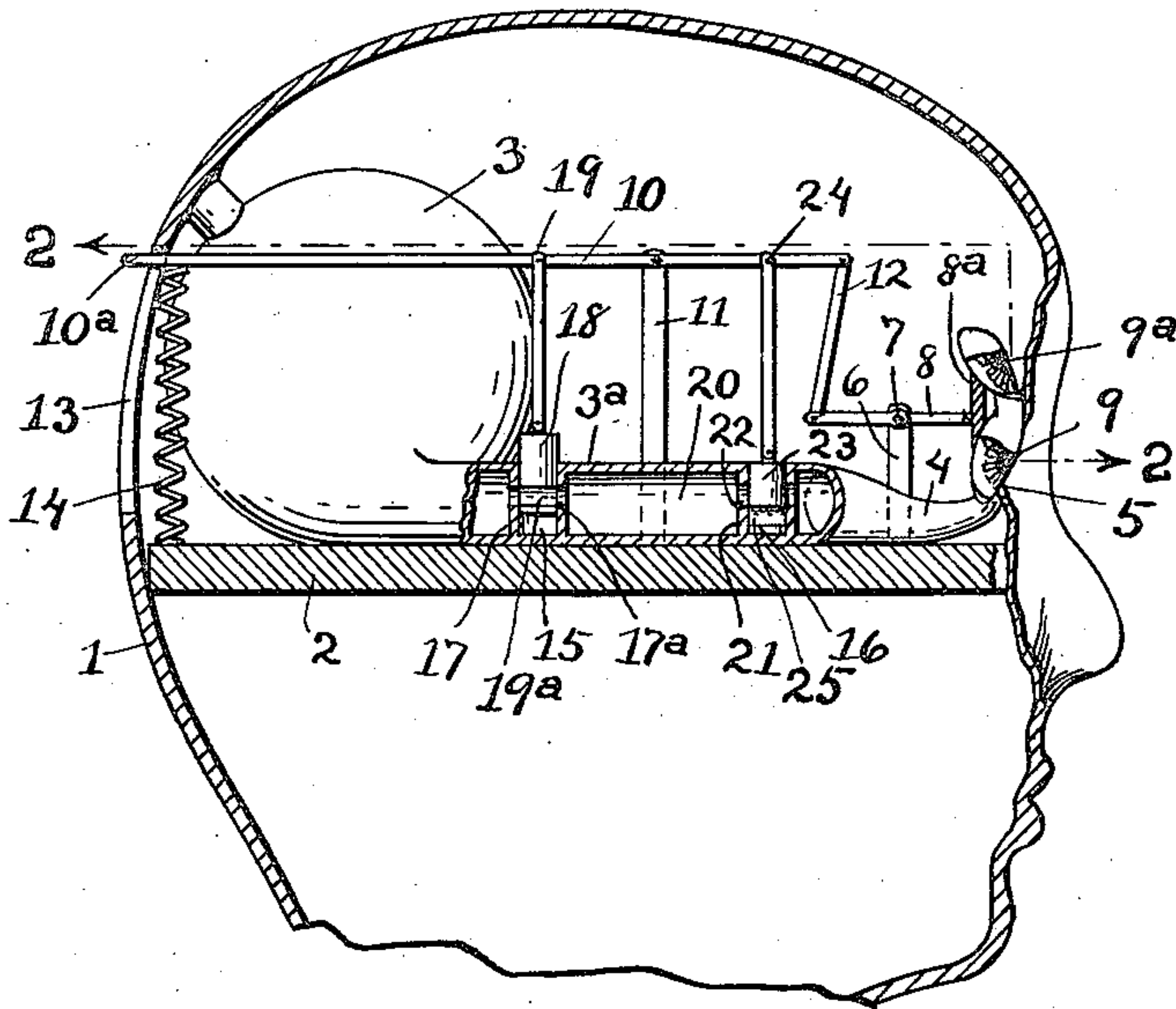
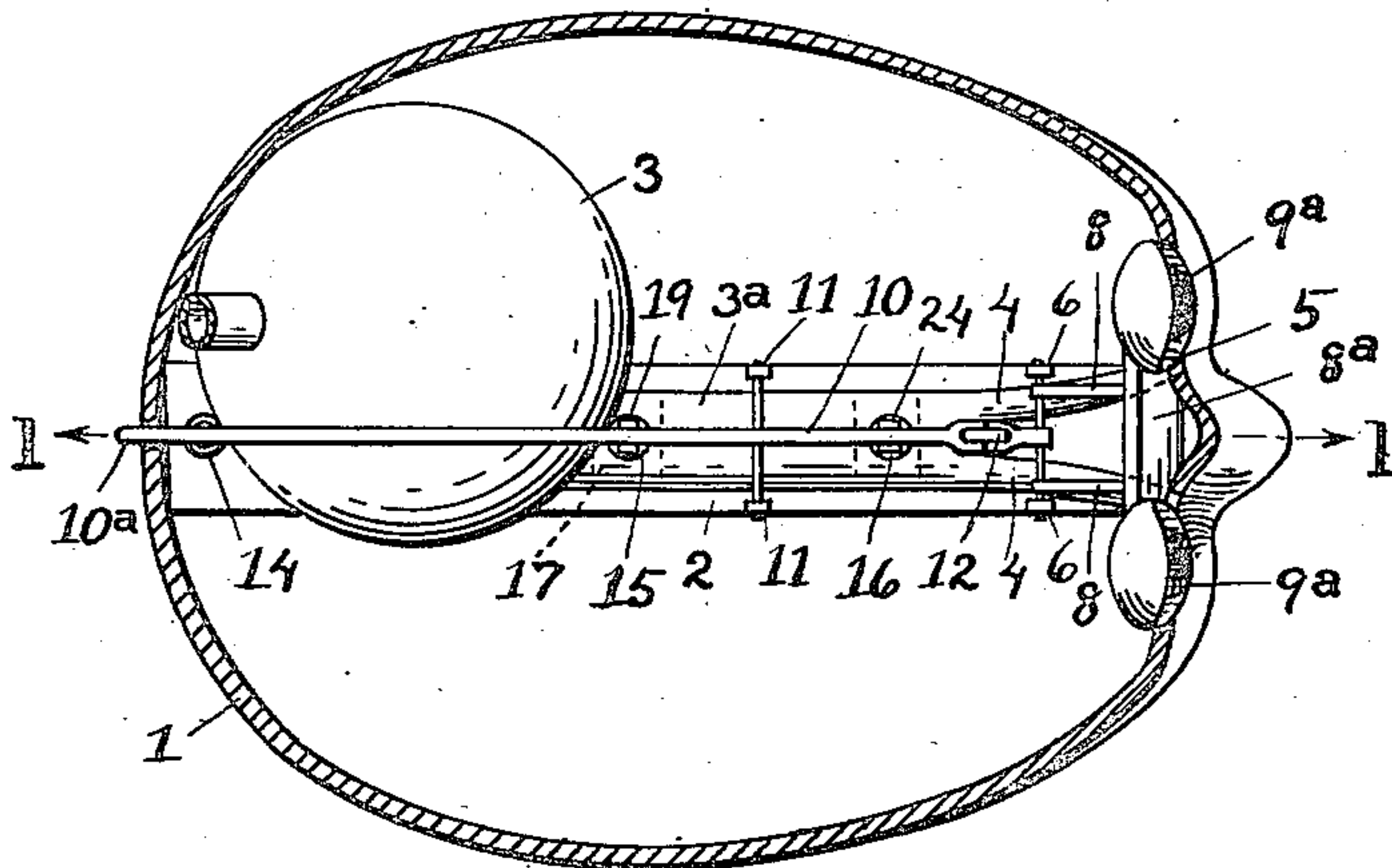


Fig. 2.



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3 SHEETS—SHEET 2.

Fig. 3.

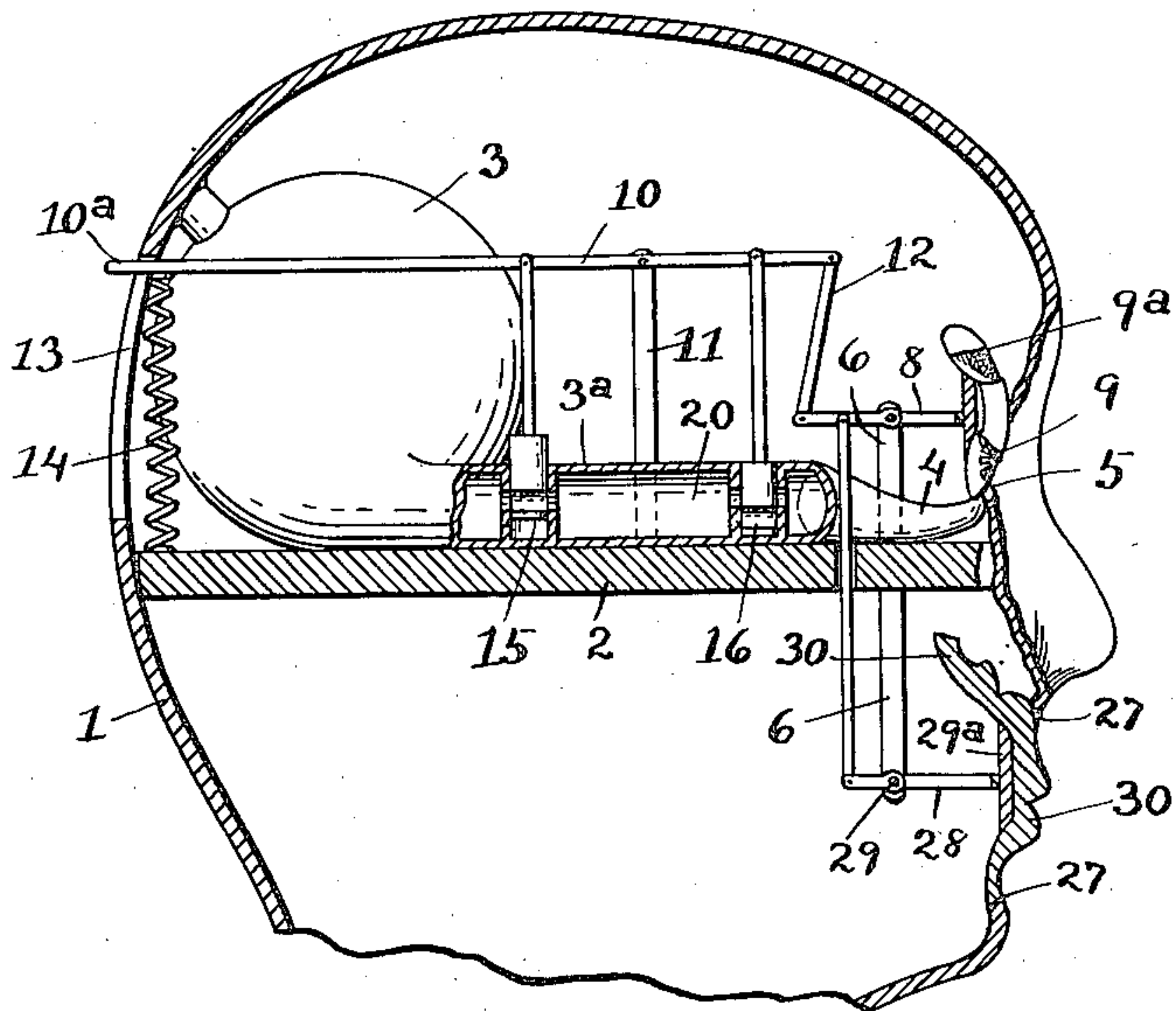


Fig. 4.

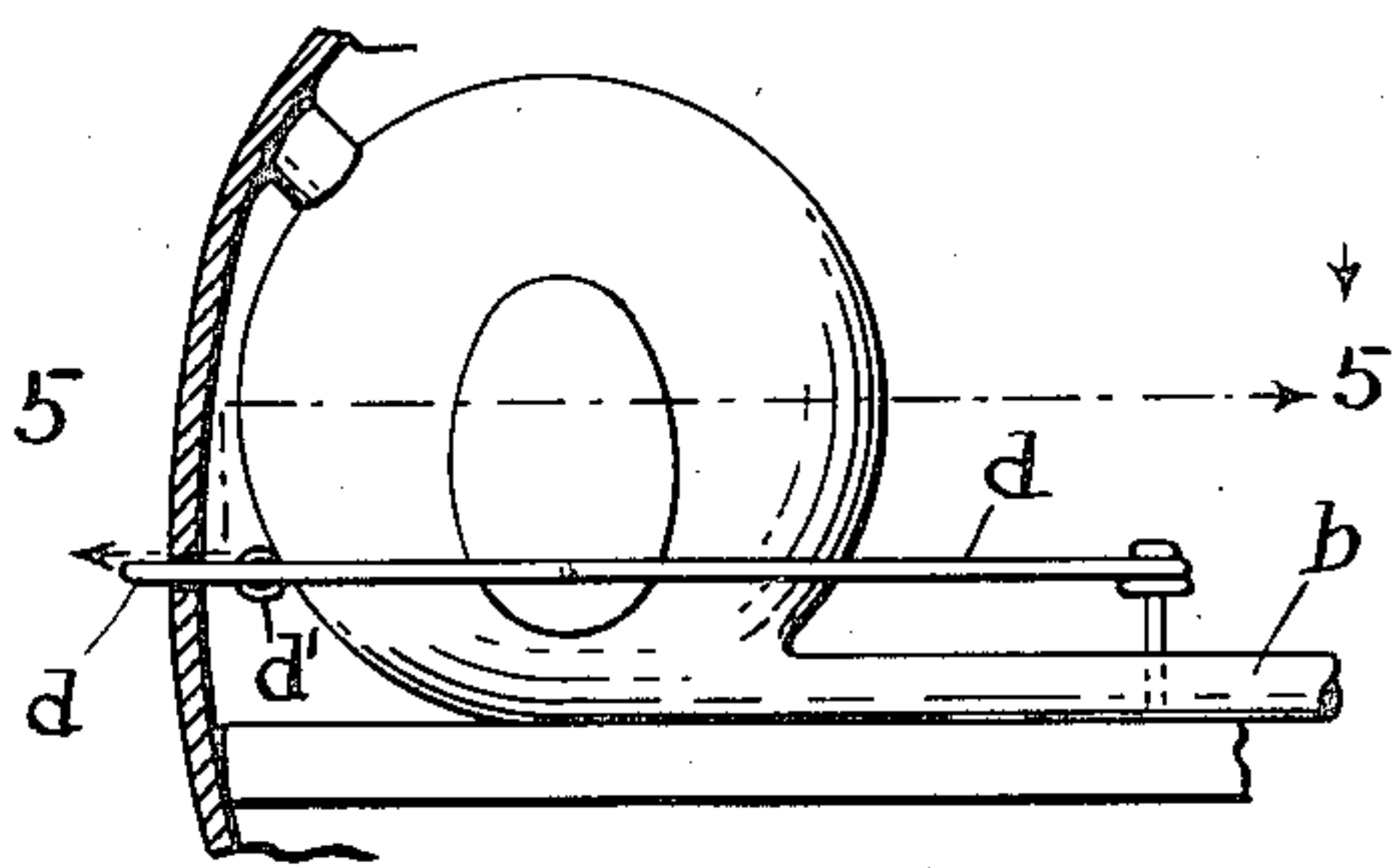
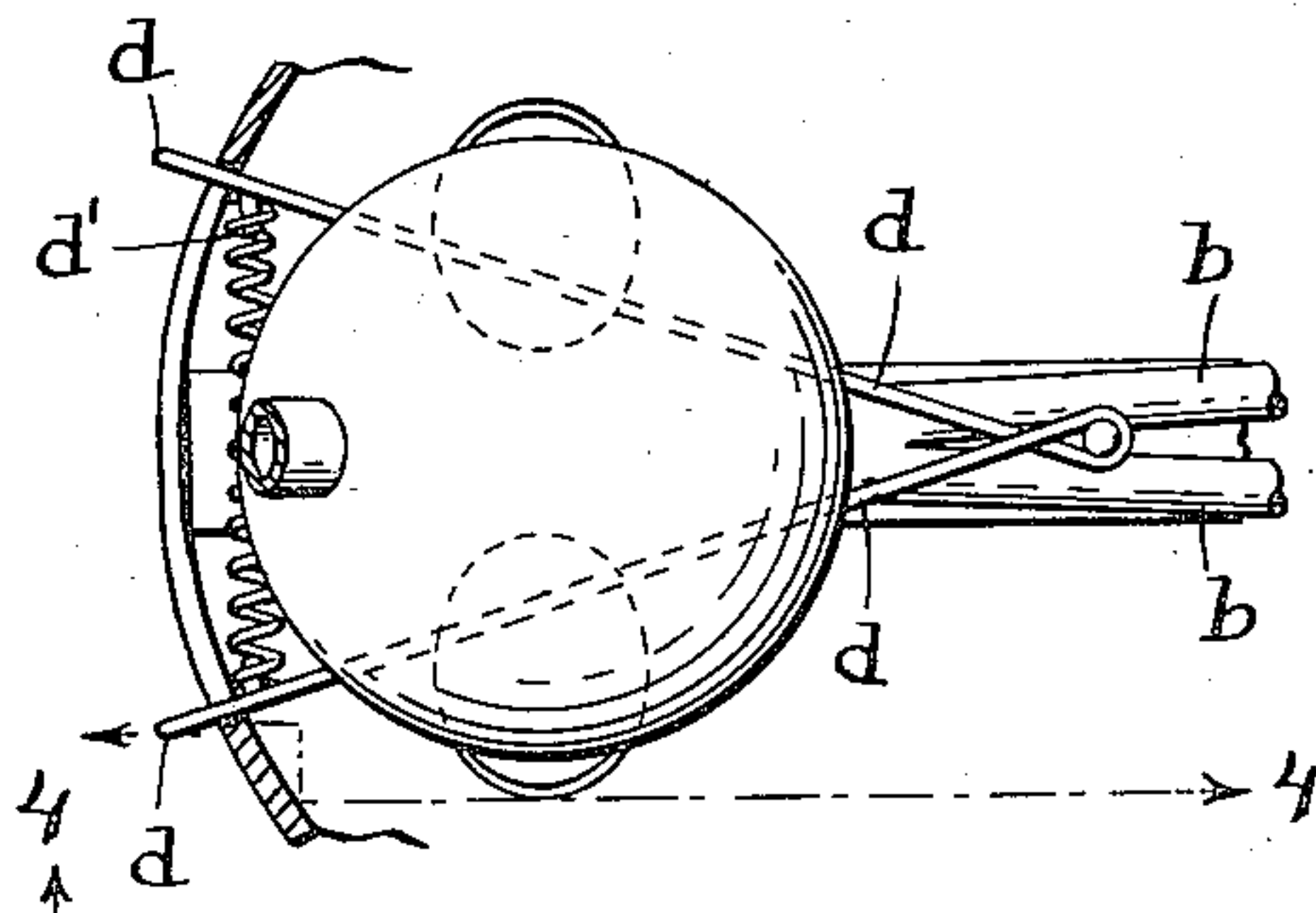


Fig. 5.



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3 SHEETS—SHEET 3.

Fig. 7.

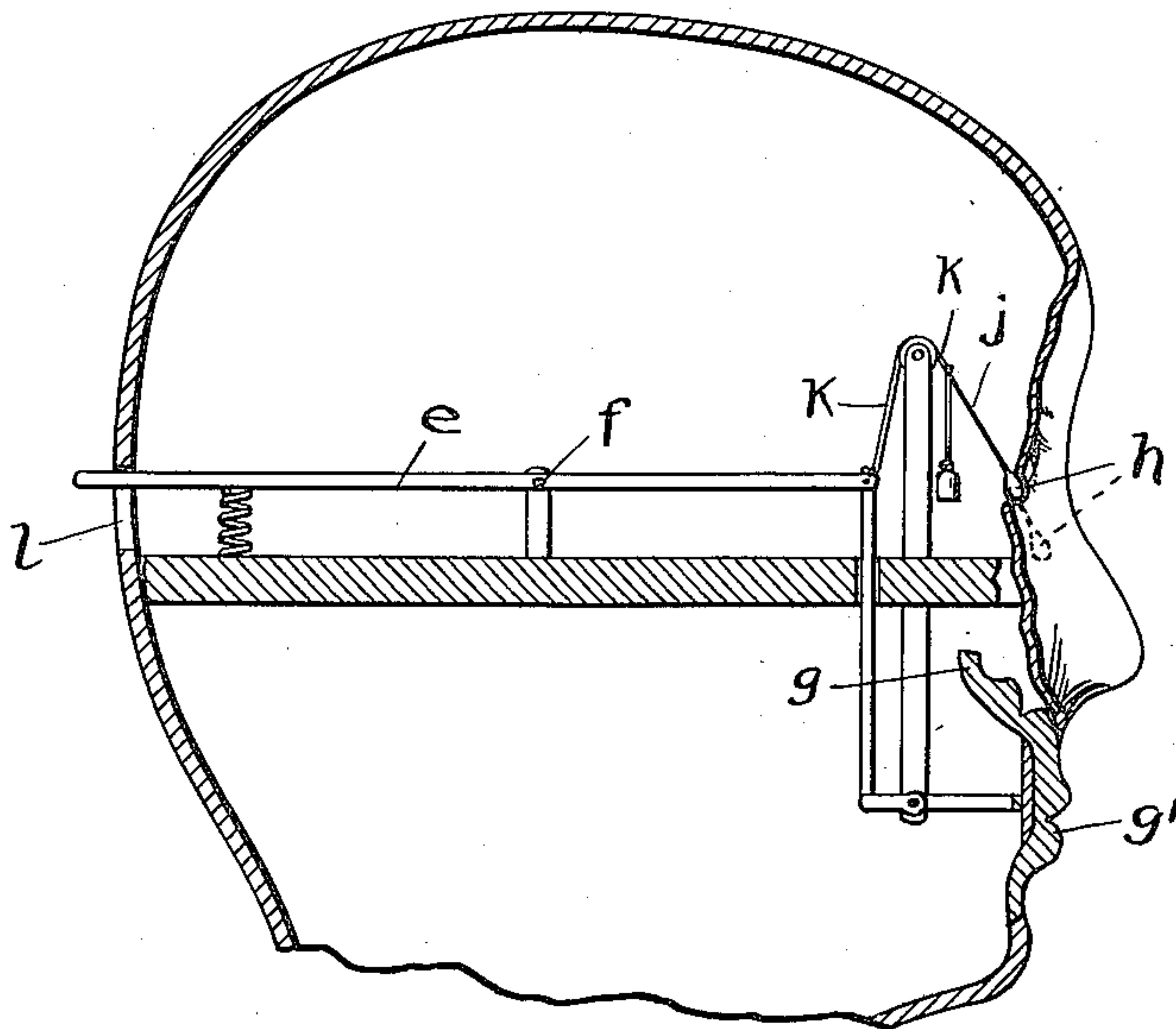
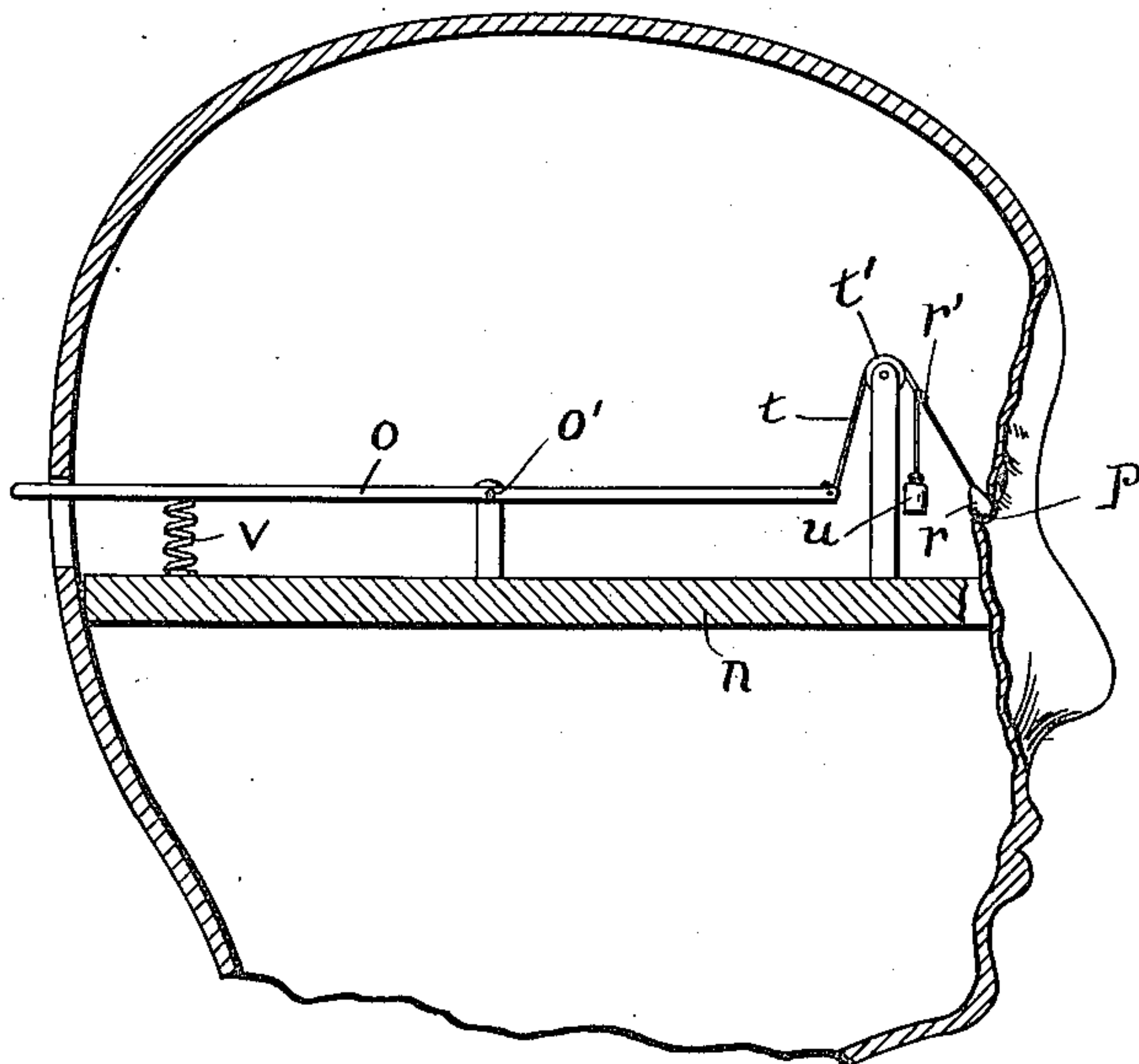


Fig. 6.



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# UNITED STATES PATENT OFFICE.

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962,154.

Specification of Letters Patent. Patented June 21, 1910.

Application filed December 31, 1909. Serial No. 535,855.

*To all whom it may concern:*

Be it known that I, DON M. LEMON, citizen of the United States, resident of Boston, in the county of Suffolk and State of Massachusetts, have made a certain new and useful Invention in Toys; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a central vertical section of a doll's head showing the invention as applied; Fig. 2 is a section on the line 2—2, Fig. 1; Fig. 3 is a central vertical section showing a modification of the invention including the representation of two mouths of different expressions; Fig. 4 is a detail side view partly broken away, showing a modified means for furnishing the representation of tears; Fig. 5 is a plan view of the same; Fig. 6 is a central vertical section of a doll's head showing a modification of the invention as applied, and including means for exposing a solid tear and withdrawing the same from view; and Fig. 7 is a similar view showing in addition the representations of two mouths of different expressions.

The invention has relation to toys having the form of an animated creature, and has for its object the provision of means for causing tears or the visible representation of tears to fall from the eye or eyes of the figure.

Other objects and advantages will hereinafter appear.

In the accompanying drawings, illustrating the invention, the numeral 1 designates the head of the toy, being a doll as shown, and 2 is a horizontal support for the mechanism controlling the passage of the tear representation. Located upon this support is a bulb 3 for water or other fluid substance, a neck 3<sup>a</sup>, communicating with said bulb and having branches 4 4 leading to the eye sockets 5 5, a vertical or right-angle piece 6 being secured to said support just in rear of the eye sockets.

Fulcrumed to the piece 6 at 7 is a lever 8 carrying at one end thereof a carrier 8<sup>a</sup> bearing the representation of two sets of eyes or eye balls 9 9<sup>a</sup>, one above the other,

and representing one the normal or laughing eye and the other the weeping or sorrowful eye, the movement of the eyes being controlled by an intermediately fulcrumed lever 10 carried by an upward extension 11 of the support 2 and having a rod 12 connecting with said lever 8.

The lever 10 has its operating end 10<sup>a</sup> working in a slot 13 at the rear of the head of the doll, and is kept in its normal horizontal position by a coiled spring 14 underlying its rear arm. Upon depression of this lever 10 a valve 15 in the neck 3<sup>a</sup> is operated to cut off the supply of water or other fluid from the bulb, while a valve 16 is simultaneously operated to allow the escape of a determined small portion of the water into the branches 4 4, and from thence to the eye sockets, from whence this water will fall as tear drops. The valve 15 is located in a diaphragm or closure 17 of the neck 3<sup>a</sup>, and consists of a horizontal passage or channel 17<sup>a</sup> controlled by a vertical plunger 18 pivoted to the rear arm of the lever 10 at 19 and having a channel or passage 19<sup>a</sup> which is normally in register with the passage 17<sup>a</sup>, allowing water from the bulb to escape into the small compartment 20 between the valves 15 and 16. The valve 16 is located in a diaphragm 21 in the neck 3<sup>a</sup>, and consists of a horizontal channel 22 controlled by a plunger 23 pivoted to the forward arm of the lever 10 at 24 and having a passage or channel 25 normally out of register with the passage 22.

The two diaphragms 17 and 21 are separated from each other by a sufficient distance to admit between them in the neck 3<sup>a</sup> a small portion of the water of the bulb, which escapes to the eyes upon operation of the lever 10 as before stated, the eye carrier being at the same time adjusted to bring into view at the eye sockets the representation of the weeping or sorrowful eyes, the normal or laughing eyes being moved downward out of sight.

In Fig. 3 of the drawings is shown a modification of the invention wherein the doll is provided with a mouth opening 27, the right-angle piece 6 being extended downward and carrying a lever 28 fulcrumed thereto at 29 and having at one end a carrier 29<sup>a</sup> bearing the representations of the lips of two mouths 30 30, one located above the other, the one being the normal or smiling



ing mouth and the other the drooping or sorrowful mouth. The operation of the lever in this case simultaneously actuates the eye carrier as stated and also the mouth carrier, to bring the drooping mouth into view at the mouth opening the smiling mouth passing downward out of sight.

In Figs. 4 and 5 of the drawing a modification of the invention is shown wherein the mechanism is of simpler nature, the bulb in this case being compressed slightly by the opposite handles *d, d*, bearing thereupon at each side to discharge a small quantity of the fluid contents into the branches *b, b*, leading to the eye sockets *e, e*. A spring *d'*, between the two handles forces them back to normal position after operation.

In Fig. 7 of the drawings is shown a still further modification, wherein *e*, is a rod or bar pivoted intermediately of its length at *f*, and carrying at one end thereof the representation of a crying mouth *g*, and a normal or laughing mouth *g'* one located above the other, a solid tear *h*, of glass or other suitable material having connection with the end of the bar *e*, by means of an upward rod extension *j*, and a flexible cord or wire *k*. Thus upon depression of the handle end of the operating lever, which works in a slot 1, at the rear of the head of the doll, the normal mouth will move upward out of sight and the crying mouth will come into view at the mouth opening, the solid tear at the same time falling downward from the eye socket out upon the cheek of the doll, where it will remain until the lever is released, when the parts will resume normal position, the crying mouth moving downward out of sight, the smiling mouth coming into view and the solid tear being withdrawn into the eye socket.

Fig. 6 shows a modification for bringing into view the visible representation of a solid tear without the means for changing the eyes or mouths to accord with different moods. In this figure *n*, is the support; *o*, an operating lever fulcrumed to a standard of said support at *o'*; *p*, is the eye socket; *r*, the solid tear having a small stiff rod attachment *r'*, and a flexible connection *t*, with the rod passing over a small pulley *t'*, to the end of the operating lever; and *u*, a small weight having connection with the upper end of the little rod *r'*. Thus upon movement of the operating lever the weight will be dropped, causing the solid tear to fall out upon the cheek of the doll, where it will remain until the lever is released, a spring *v*, carrying the lever back to normal position, the other parts referred to moving simultaneously back to normal position.

While I have shown the parts as in position for operation at the back of the head of the doll, it will be obvious that by a simple rearrangement of the parts (not shown)

the device may be operated from any suitable part of the body of the figure.

Having described my invention, what I claim as new and desire to secure by Letters Patent is—

1. In a toy having the form of an animated creature, means for causing the representation of a tear to fall from the eye of the toy.

2. In a toy having the form of an animated creature, hand operated means for causing the representation of a tear to fall from the eye of the toy.

3. In a toy having the form of an animated creature, means for causing the representation of a tear to fall from the eye of the toy, and means for simultaneously changing the expression of the eyes of the toy.

4. In a toy, having the form of an animated creature, means for causing the representation of a tear to fall from the eye of the toy, and means for simultaneously changing the expression of the eyes and mouth of the toy.

5. In a toy, having the form of an animated creature, means for causing the representation of a tear to fall from the eye of the toy, a carrier having the representation of normal eyes and weeping eyes, and means for moving said carrier to cause one set of eyes to pass out of sight and the other set to come into view at the eye openings.

6. In a toy having the form of an animated creature, means for causing the representation of a tear to fall from the eye of the toy, and means for changing the expression of the eyes of the toy.

7. In a toy having the form of an animated creature, means for causing the representation of a tear to fall from the eye of the toy, and means for changing the expression of the mouth of the toy.

8. In a toy having the form of an animated creature, a reservoir having an extension to an eye opening of the toy, and means for causing a small quantity of the contents of the reservoir to escape to the eye opening.

9. In a toy having the form of an animated creature, means for causing the representation of a tear to fall from the eye of the toy, a carrier bearing the representation of normal eyes and weeping eyes, and means for moving said carrier simultaneously with the exposure of said tear to cause one set of eyes to pass out of sight and the other set to come into view at the eye openings.

10. In a toy having the form of an animated creature, a carrier bearing the representation of normal eyes and weeping eyes, a reservoir having branches extending to the eye openings of the toy, means for operating said carrier to cause one set of eyes to pass out of sight and the other set to come into view at the eye openings, and to simultane-



ously cause a small quantity of the contents of said reservoir to escape to the eye openings.

5 11. In a toy having the form of an animated creature, a carrier bearing the representation of normal eyes and weeping eyes, a reservoir having branches extending to the eyes of the toy, a valve device, means for operating said carrier to cause one set of eyes  
10 to pass out of sight and the other set to come into view at the eye openings and for simultaneously operating said valve device to cause a given determined quantity of the contents of the reservoir to escape to the eye  
15 openings of the toy.

12. In a toy, having the form of an animated creature, a reservoir having branches extending to the eye openings of the toy, and means for causing a small quantity of  
20 the contents of the reservoir to escape to the eye openings.

13. In a toy having the form of an animated creature, a reservoir having branches extending to the eye openings of the toy, a  
25 valve device, and means for operating the

same to cause a given determined quantity of the contents of the reservoir to escape to the eye openings.

14. In a toy having the form of an animated creature, a carrier bearing the representation of two sets of eyes of different expressions, said carrier also bearing the representation of two mouths of different expressions, a reservoir having branches extending to the eye openings of the toy, a valve device, means for operating said valve device  
35 to cause a given determined quantity of the contents of the reservoir to escape to the eyes of the toy, and means for simultaneously operating said carrier to expose at the  
40 eye openings a hidden set of eyes and at the mouth opening a hidden mouth, and to hide a normally visible set of eyes and a normally visible mouth.

In testimony whereof I affix my signature, 45  
in presence of two witnesses.

DON M. LEMON.

Witnesses:

LUCIE P. GRAY,

ROBERT E. BUFFUM.