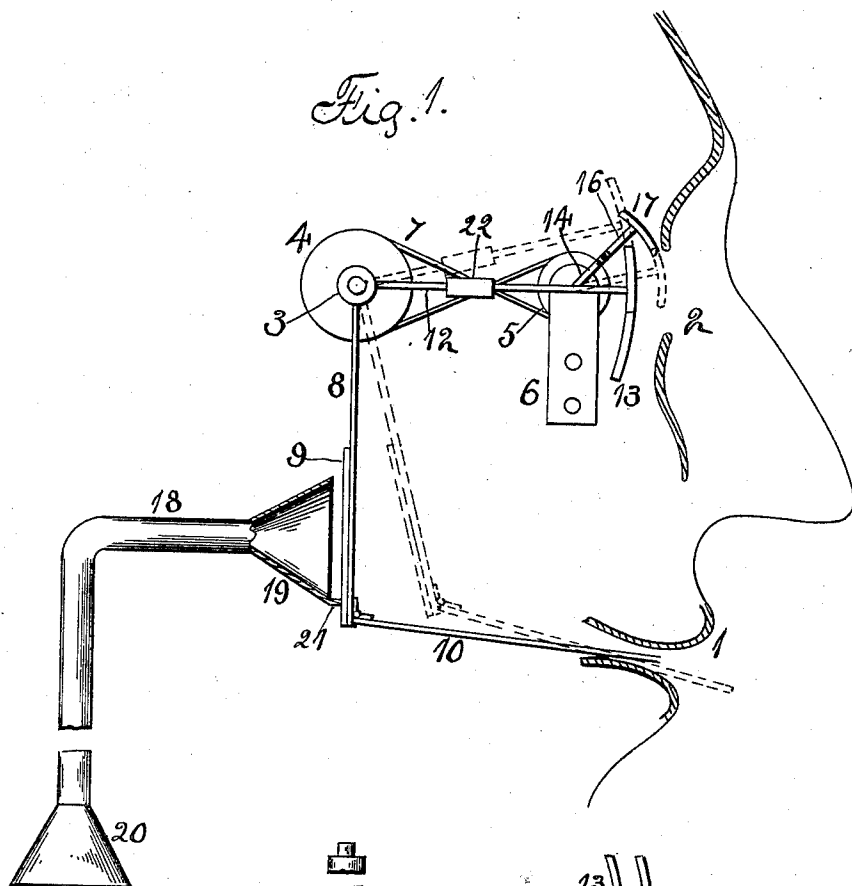
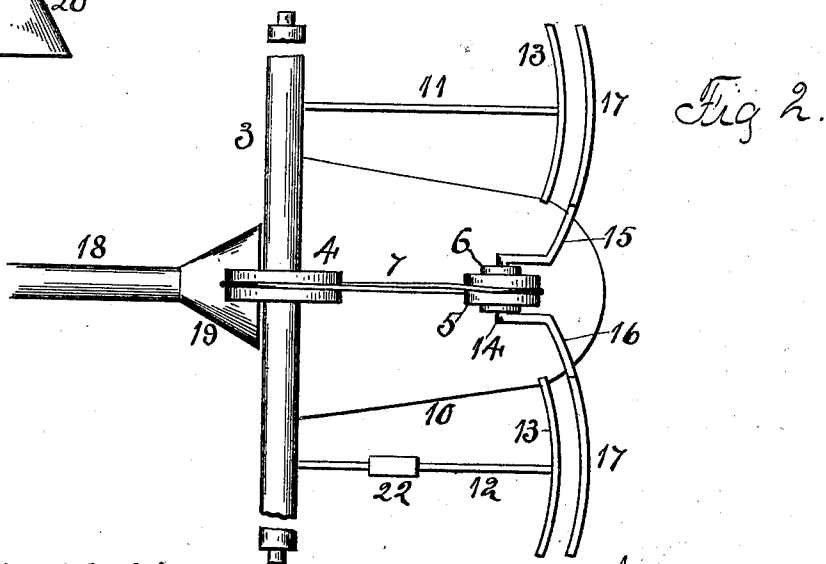


No. 722,207.

PATENTED MAR. 10, 1903.

C. W. CHAFEE.
MECHANICAL FIGURE.
APPLICATION FILED NOV. 17, 1902.

NO MODEL.



Witnesses:
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Wm E. Briggs

Inventor:
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Atty.

UNITED STATES PATENT OFFICE.

CHARLES W. CHAFEE, OF MARENGO, ILLINOIS.

MECHANICAL FIGURE.

SPECIFICATION forming part of Letters Patent No. 722,207, dated March 10, 1903.

Application filed November 17, 1902. Serial No. 131,753. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. CHAFEE, a citizen of the United States, residing at Marengo, in the county of McHenry and State of Illinois, have invented certain new and useful Improvements in Mechanical Figures, of which the following is a specification.

The object of this invention is to construct a mechanically-operative figure comprising means for moving the eyeballs, eyelids, and tongue by air-pressure.

In the accompanying drawings, Figure 1 is a section of a face of a figure, showing the location of the mechanical arrangement. Fig. 2 is a plan view of the mechanical arrangement.

The mouth 1 and eye 2 of the figure shown in Fig. 1 are in sections. The shaft 3 is supported by the figure in any suitable manner, so as to allow it to oscillate. A pulley 4 is secured to the shaft. A pulley 5 is supported by the bracket 6 in a manner to oscillate. A band 7 connects the pulleys 4 and 5 and is crossed. From the shaft depends a frame 8, supporting a plate 9. To the lower end of the frame is hinged a tongue 10, having its free end located in the mouth of the figure. From the shaft extend two rods 11 and 12, each supporting a curved plate 13, on the outer surface of which is painted a representation of an eyeball. The rod 14, forming the support for the pulley 5, has its ends 15 and 16 bent in crank form and supports two curved plates 17, representing eyelids. These plates 17 are located outside of the plates 13. In rear of the plate 9 is located a speaking-tube 18, having a bell-shaped end 19. This tube can extend a suitable distance from the figure and has a mouthpiece 20.

When the parts are in the position shown in the drawings, the plate 9 will rest against the projection 21, extending from the bell-shaped end 19 and held in this position by the weight 22, attached to the rod 12. By blowing through the speaking-tube 18 the plate will be forced into the position shown in dotted lines, which will cause the tongue-piece to protrude. This movement of the

plate will oscillate the shaft 3 and cause the plates 13 to rise into the position shown in dotted lines. As the shaft 9 oscillates the belt connection between the pulleys will oscillate the pulley 5 and move the plates 17 downward into the position shown in dotted lines. The weight 22 will return the parts to their normal position.

By means of the speaking-tube the voice can be carried into the head of the figure and the tongue, eyeballs, and eyelids moved more or less, according to the air-pressure imparted to the plate 9.

In the drawings I have only shown the outline of the face of a figure, but in actual use a complete head is employed, and the speaking-tube can have any suitable connection with the head in order to conceal it.

This mechanical construction is for amusement and to attract attention in show-windows.

I claim as my invention—

1. In a mechanical figure, the combination of a shaft supporting a sleeve and roller, a swinging plate suspended from the sleeve, a secondary shaft having its branches bent in crank form and supporting eyeballs or representations of eyeballs, a roller supported by the secondary shaft, a belt connecting the rollers and a tube having one end located in close proximity to the swinging plate.

2. In a mechanical figure, the combination of a shaft, a sleeve and roller supported by the shaft, a swinging plate suspended from the sleeve, a tongue hinged to the plate, a secondary shaft having its branches bent in crank form and supporting eyeballs, or representations of eyeballs, a roller supported by the secondary shaft, a belt connecting the rollers, arms extending from the sleeve supporting eyeballs and a tube having one end located in close proximity to the swinging plate.

CHARLES W. CHAFEE.

Witnesses:

WIBER LEVEY,
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