

Feb. 15, 1927.

M. J. MUNSON

1,617,687

MECHANICAL FACE WITH MOVABLE FEATURES

Filed March 19, 1924

5 Sheets-Sheet 1

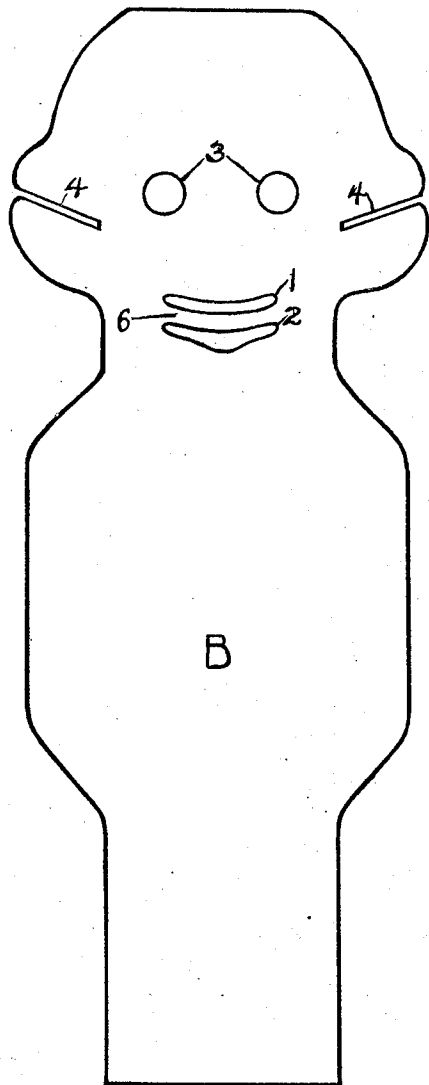


FIG 1

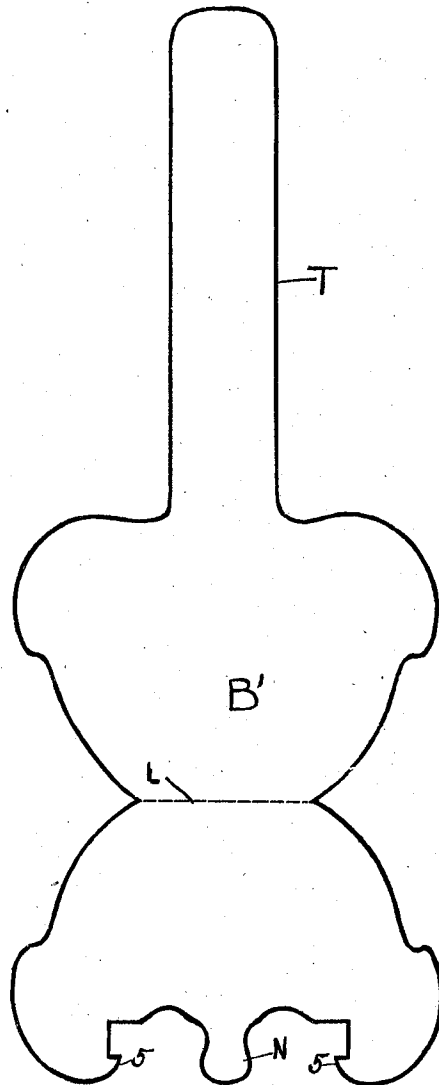


FIG 2

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5 Sheets-Sheet 2

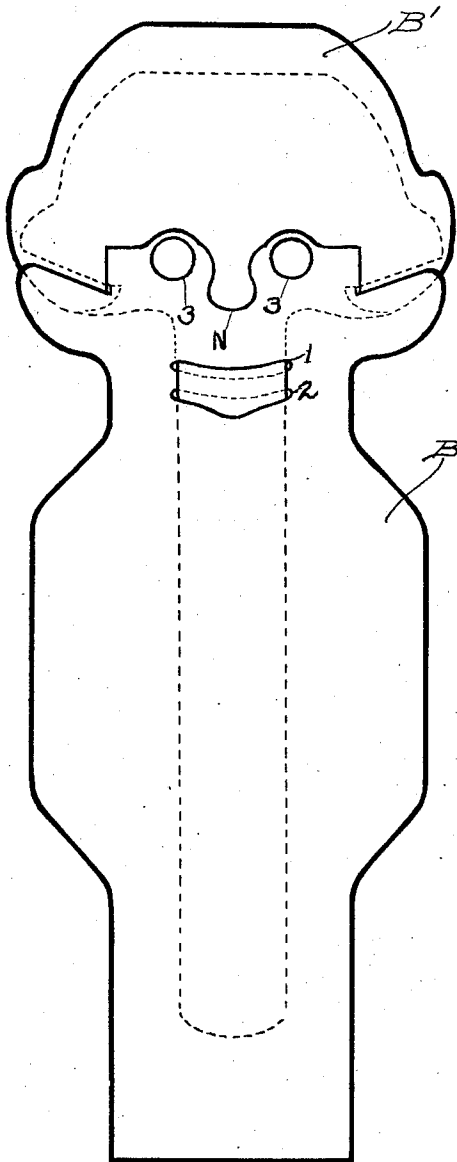


FIG. 3

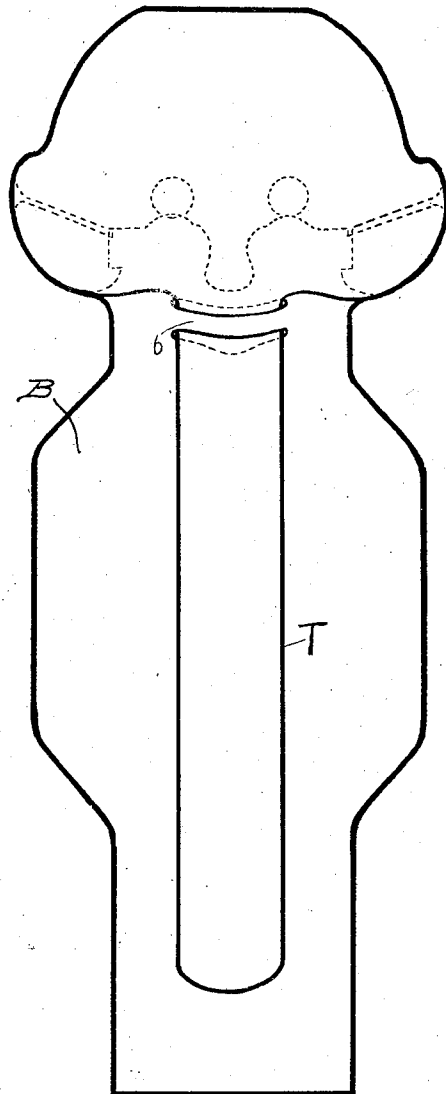


FIG. 4

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5 Sheets-Sheet 3



FIG. 5

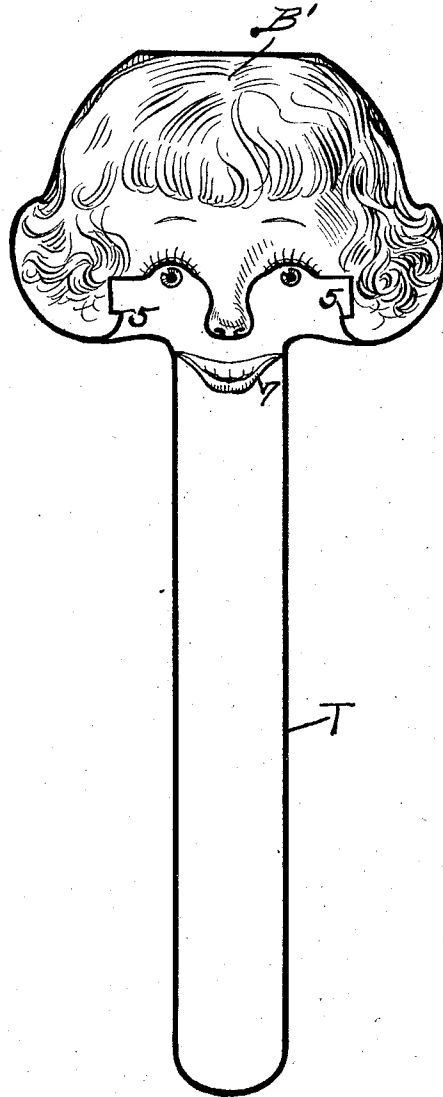


FIG. 6

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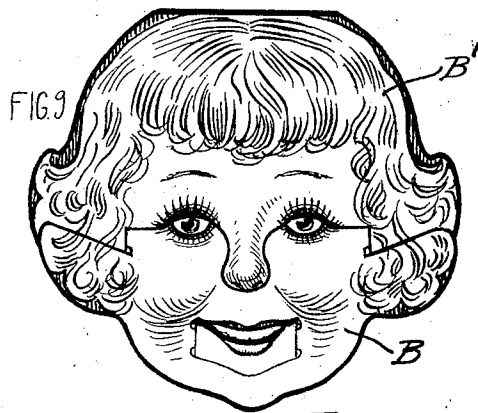
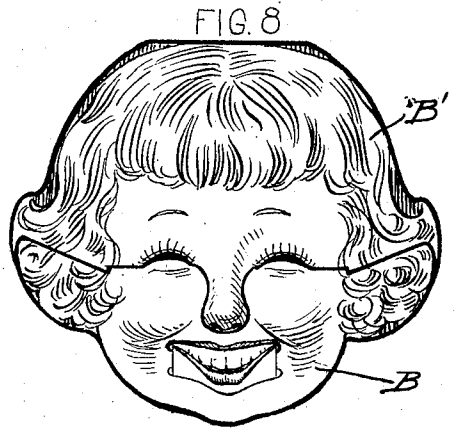
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MECHANICAL FACE WITH MOVABLE FEATURES

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5 Sheets-Sheet 4



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MECHANICAL FACE WITH MOVABLE FEATURES

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5 Sheets—Sheet 5

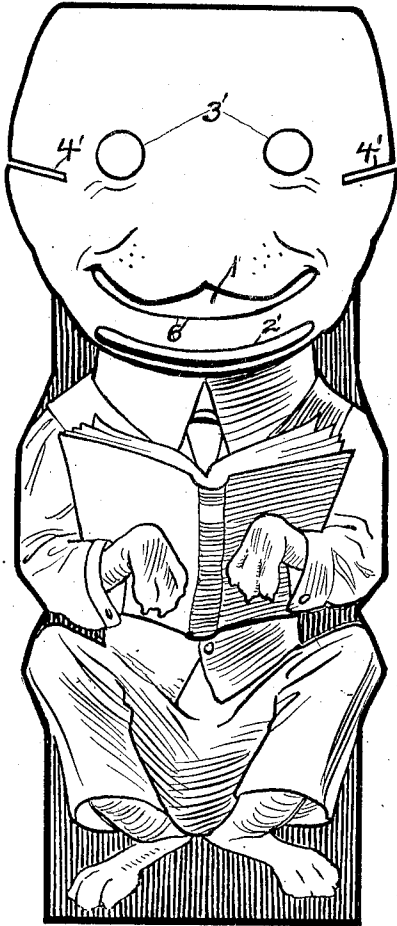


FIG. 11

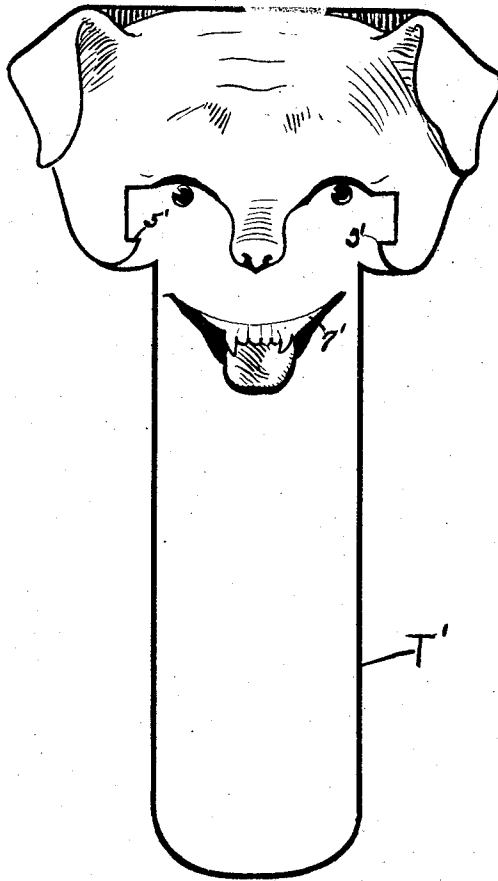


FIG. 12

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# UNITED STATES PATENT OFFICE.

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## MECHANICAL FACE WITH MOVABLE FEATURES.

Application filed March 19, 1924. Serial No. 700,229.

My invention is a mechanical face with movable features, and is adapted to be used for the heads of dolls, adult heads, heads of animals, and the like, for toys. Said invention may also be used for advertising purposes, in show windows, or made of large size for use in connection with large illuminated signs. It may also be used on post cards for dinner favors and for campaign buttons to be placed in the lapel of a coat. Various other specific uses will appear as the description thereof proceeds.

It is an object of my invention to provide two or more relatively movable members, which members are adapted to form the head of a mechanical face, said members being adapted, when moved, to coact so that said face may be made to form a succession of expressions or aspects.

It is also an object of my invention to form a mechanical face with movable features in which the various parts of said face may be moved to form a variety of expressions.

A still further object of my invention is to provide two or more relatively movable members, which members are adapted to be oscillated or reciprocated, whereby a mechanical face may be made to form a succession of expressions.

It is also an object of my invention to provide one or more members adapted to form a mechanical face with movable features, one or more of said members, or one member alone, being adapted to form the eyes, teeth, and lower lip of said face, while the remaining parts or portions are adapted to form the upper eye-lashes, eye-lids and the remaining portions of said face.

It is moreover an object of my invention to form two or more members with the features of a human or animal face, one of said members being provided with an extension that is adapted to be inserted into or be interconnected with another of said members, whereby, when said extension is actuated, said members may be made to coact so that said face may assume different aspects.

It is also an object of my invention to provide a mechanical face with movable features comprising two or more members, which members may be interlocked.

It is also an object of my invention to provide a device which is simple in construction, easy and inexpensive to manufacture,

and which will produce the results sought for.

Further objects and advantages of my device will be made apparent as the description thereof proceeds.

Reference is had to the accompanying drawings, in which similar reference characters denote similar parts.

In the drawings,

Fig. 1 is a plan view of one of the blanks out of which my device is constructed,

Fig. 2 is a plan view of the second blank, which blank is adapted to cooperate with that shown in Fig. 1 to form my device,

Fig. 3 is a front elevation of the two blanks assembled,

Fig. 4 is a rear elevation, similar to that shown in Fig. 3,

Fig. 5 is a front elevation of my device, the blank shown in Fig. 1 being ornamented,

Fig. 6 is a plan view of the blank shown in Fig. 2, folded in position, and ornamented to form the remaining portions of a face,

Fig. 7 is a plan view of my device, ornamented and assembled, the face showing a solemn expression,

Figs. 8, 9 and 10 show respectively views of the face showing a laugh, a smile and a wink, and

Figs. 11 and 12 are views, similar to those shown in Figs. 5 and 6, showing an animal.

Describing the device more in detail, two blank B and B' are provided, as shown in Figs. 1 and 2, which blanks are stamped out of sheet material, such, for example, as cardboard or sheet metal, although any suitable material whatever may be used, if desired. Figs. 11 and 12 show the blanks formed to indicate an animal, while Figs. 1 and 2 show a doll.

The blank B is provided with slots 4, for a purpose that will presently appear. The holes 3 are cut or stamped out of the blank B, which, when ornamented as shown in Figs. 5 and 7, represent the configuration of the eyes, in which the eye balls are adapted to move. Slots or perforations 1 and 2 are cut or stamped from the blank, which slots or perforations are adapted to receive the tongue or extension T of the blank B'.

The blank B', shown in Fig. 2, is also stamped or cut out of sheet material in the form shown, the dotted line L indicating the line upon which said blank is adapted to be

folded. The lower portion of said blank is adapted to be ornamented to form the head, upper portions of the face, upper eye-lashes, eye lids, eye brows and the frontal configuration of the nose N.

When assembled, the blanks have the appearance of the device as shown in Figs. 3 and 4, the tongue or extension T being inserted through the slot 1, across the portion 6, and down through the slot 2. Fig. 3 shows the front view of the device thus assembled, and Fig. 4 the rear view thereof. For the purpose of locking the two elements or members of my device in position, slots 4 are cut or stamped out of the blank B, and projections 5 are stamped or cut-out of the blank B', said projections 5 being adapted to enter said slots 4, thereby forming a means for securely locking said members in position, and at the same time permitting said members to be moved relatively.

It will be noted in Fig. 5 that the blank B may be ornamented as shown to form the body of the doll, that portion forming the head and face being ornamented to form the lower portion of the face of said doll, including the lower lashes of the eyes, the upper lip, and chin, both upper and lower eye-lashes appearing on said figure.

Fig. 6 shows how the blank B' may be ornamented to form the upper portion of the head and face of the doll, said figure showing the upper eye-lashes, eye-lids, and frontal outline of the nose, the lower lip and teeth also being shown. Said blank, when thus ornamented and folded on the dotted line L, is adapted to be folded over the head or the face of the blank shown in Fig. 5. Said blank B' is also ornamented to form the eyeballs of the doll.

As shown in Fig. 7, when the device is assembled, the extension T may be manipulated so that a solemn expression may be formed on the face, the eyes being fully open. Fig. 8 shows a laughing expression or aspect, with the eyes closed. Fig. 9 shows the eyes half closed, the face forming a smile, while Fig. 10 shows a face in such a position as to indicate a wink.

In Fig. 11 a blank is shown ornamented to form an animal, the slots 1' and 2' being used to permit the tongue or extension T' to enter the same and pass over the portion 6'. The locking members 5' are adapted to enter slots 4', whereby the two members may be locked in position, but at the same time said members are permitted to be relatively moved. The holes 3' are used precisely as the holes 3 described in connection with Figs. 1 and 5.

In operation, the device being assembled as shown in Fig. 7, either of said members may be moved so that the face will form a succession of expressions or aspects. The extension or tongue T may be oscillated or

reciprocated, or the other member may be likewise oscillated or reciprocated, many different expressions or aspects being formed as desired.

It is within the province of my invention to provide an automatic means, such as a motor, for operating either or both of said members, whereby said face may automatically be made to form a variety of expressions. If desired, said face may be illuminated to form a sign for advertising purposes. It is also clear that I do not desire myself to be limited to a doll or an animal, as shown in the drawings, nor do I purpose to be limited to the exact configuration and ornamentation shown and described. It is also clear that my device may be modified throughout a wide range, and I do not purpose to be limited to the exact details of construction shown and described.

What I desire to be protected by Letters Patent is set forth in the following claims.

I claim as my invention:

1. In combination, a mechanical face with movable features for dolls and the like formed of two members adapted for relative movement, one of said members being cut to form the front head portion and a depending tongue portion, the frontal outlines of said head, the upper eye lashes, eye lids, nose, said other member being cut to form the frontal outlines of said head, a portion of the face, both lower and upper eye lashes, and further cut to form two slots immediately below the upper lip, one under the other, said frontal portion of said first member being adapted to be superimposed upon said second member, and the tongue portion inserted through the upper slot from the rear and projected downward through the lower slot, and means on said members enabling said face to form a succession of expressions when said members are moved relatively to each other.

2. A changeable picture having a face section provided with holes at the eye region and an elongated opening below the upper lip, upper eye lid and nose portions superposed for relative movement on said face section, an eye section movably positioned behind said holes having portions adapted to show through said holes and be covered more or less by said eye lid portions, and lower lip and tooth portions below said eye section and movably positioned behind said face section, means for coordinately moving said eye lid and nose portions, said eye section and said lower lip and tooth portions, whereby a variety of expressions may be formed.

3. A face with mechanically movable features comprising in combination a pair of relatively movable members having depicted thereon the features of a face, one of said members having a top portion superposed

over the other of said members, certain portions of one of said members overlapping, interlapping, and always lying in flat relation with the other, said member having a  
5 restricted movement in all directions relative to the other of said members, means associated with both of said members for moving them relatively, said superposed portion  
10 coacting with certain visible portions on said first member to cover and uncover certain of said features, and means associated with the outermost sides of each of said members for restricting the movement of said members.

15 4. In a device of the class described, two relatively movable blanks fashioned out of sheet material, one of said blanks being so cut-out and cut-away as to form the rear outlines of the head of an animal, and also to  
20 form the frontal outlines and upper portion of the face and head of said animal, said blank on both portions having depicted thereon features of said animal the other blank being fashioned to form the remaining

portions and features of said face and head 25 as well as the openings through which the features on said first blank are visible, that portion of said first blank forming the frontal outlines and upper portion of the face and head being adapted to be bent  
30 downwardly and superimposed on said other blank, said blanks when assembled being adapted to coact to cover and uncover certain parts thereof, so that said face may be caused to form a variety of expressions. 35

5. A device for producing a sequence of expressions comprising two members operatively connected for relative reciprocating and oscillating movement, one of said members having a folded over portion and said  
40 second member being inserted thereunder and partially covered thereby, means on each of said members coacting when said members are reciprocated to produce a succession of different expressions and when oscillated to  
45 produce additional expressions.

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