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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 4:

A63H 3/14

(11) International Publication Number: WO 88/09198

(43) International Publication Date: 1 December 1988 (01.12.88)

(21) International Application Number: PCT/US88/01564

(22) International Filing Date: 17 May 1988 (17.05.88)

(31) Priority Application Number: 051,407

(32) Priority Date: 19 May 1987 (19.05.87)

(33) Priority Country: US

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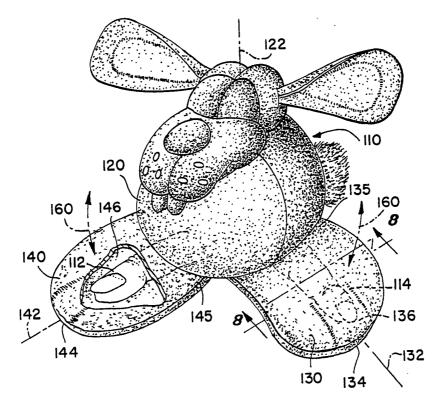
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Published

With international search report. With amended claims.

(54) Title: TOY FIGURE AND METHOD OF USING SAME



(57) Abstract

A toy figure (110) is disclosed having a body (120) and feet (130, 140) extending from the body. Pockets (136, 146) in the feet receive parts of the user's hands. The pockets and feet extend perpendicularly with respect to the upright axis of the body and parallel to the surface on which the toy figure will be used. When the user's fingers are moved through vertical arcs, the toy figure will move in an action resembling waddling.

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TOY FIGURE AND METHOD OF USING SAME

Field of the Invention

The present invention relates to toy figures, and, in particular, to toy figures which, with the use of human hands, are moveable in a manner resembling waddling.

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Background of the Invention

It is known to provide toy figures, including toy figures in the form of stuffed animals, in which the user's fingers are inserted into the figure generally along the length of, and coextensive with, the figure's legs. The fingers of the user may then perform a walking action, so that movement of the fingers through sequential strides or steps causes the figure to appear to be walking. Figures of this type are disclosed in U.S. patents No. 3,611,628; No. 3,613,301; and No. 4,202,135.

The present invention is directed to a toy figure which provides a more distinctive, unexpected and entertaining motion than that of the known toy figures designed for a walking action. According to the present invention, the hands or fingers of the user are inserted into envelopes or pockets in the feet, rather than the legs, and extend generally parallel to the surface on which the toy figure is disposed. An arcuate, upward and downward alternating movement of the hands or fingers produces a unique and entertaining waddling motion of the figure as a whole, to thus provide the user with enhanced play and entertainment value.

These advantages are achieved by a toy figure which includes a body having an axis which extends generally

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vertically when the toy figure is in an upright condition. The toy figure also includes a pair of feet, each foot of the pair of feet having a lengthwise axis. Each foot has a front, which front is spaced from the body, and the axis of each foot extends generally perpendicularly to the axis of the body. Each foot has a pocket therein for receiving at least part of a human hand. The pocket of each foot extends toward the front of each foot in the direction of the axis of the foot. In this way, the part of the human hand, when inserted in the pocket, will extend along the axis of the foot in a direction toward the front of the foot.

In one embodiment of the invention, in which a relatively large figure is provided, each pocket is of such size and configuration as to snugly accommodate at least the majority of the fingers of one human hand. In this embodiment, one human hand is inserted into the pocket of one foot, the other human hand is inserted into the pocket of the other foot, and the hands are moved such that the finger tips describe an arc to thus produce the waddling action.

According to another embodiment, i.e., a smaller embodiment, each pocket is of such size and configuration as to snugly accommodate one finger of a human hand. In this embodiment, one finger is inserted into the pocket of one foot and another finger inserted into the pocket of the other foot so that a pair of human fingers may be used to produce the waddling action.

In both embodiments, the body of the figure is constructed of a flexible fabric enclosure, preferably a plush textile fabric, filled with a soft cushiony stuffed material. The feet are also constructed of a flexible fabric material which is formed to produce pockets. In the larger embodiment, wherein all or most of the fingers of a hand are placed into the pockets of the feet, the feet are at least partially padded with a soft cushiony,

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stuffed material. Overall, the body and feet, as a whole, are formed to create a stuffed animal.

According to the present invention, a method is provided for producing a waddle-like action in a toy figure. This method includes a step of inserting at least one part of a human hand into a pocket in one foot of the toy figure so that the one part of the human hand extends generally perpendicularly to the axis of the body of the figure and along the axis of that foot toward the front of the foot. The method also includes the step of inserting at least another part of a human hand into a pocket in the other foot of the toy figure so that the other part of the hand extends generally perpendicularly to the axis of the body of the figure and along the axis of the other foot toward the front of that other foot.

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The method of the invention then provides for alternately moving the one part of the human hand and then the other part of the human hand in an upwardly, then downwardly swinging arc to provide an action resembling waddling.

When the method of the invention is used with the larger embodiment, the step of inserting at least one part of the hand into a pocket includes inserting at least the majority of the fingers of that one hand into the pocket in the foot. Similarly, the step of inserting another part of the human hand into the pocket of the other foot includes inserting at least the majority of the fingers of the other human hand into that pocket. Thus, two separate human hands are used to provide the waddling action in the larger embodiment.

In the smaller embodiment, the step of inserting at least one part of a human hand into the pocket of one foot includes inserting one finger of one hand into that pocket. Similarly, the step of inserting at least another part of the human hand into the pocket of the other foot includes inserting another finger of the same human hand into the pocket of the other foot. Thus, two fingers of

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one hand are used to produce the waddling action in the smaller embodiment. Alternatively, individual fingers of both hands of the user could be used to produce the waddling action in the smaller embodiment.

Brief Description of the Drawings

Fig. 1 is a perspective view of a toy figure according to the present invention.

Fig. 2 is a fragmentary cross-sectional view showing a foot of the toy figure of Fig. 1 which sectional view is taken on a line 2-2 of Fig. 1.

Fig. 3 is a further fragmentary cross-sectional view illustrating details of one foot of the toy figure of Fig. 1, the view of Fig. 3 being taken on a line 3-3 of Fig. 3.

Fig. 4 is a rear elevational view of the toy figure of Fig. 1.

Fig. 5 is a bottom elevational view of the toy figure of Fig. 1.

Fig. 6 is a perspective view of another embodiment of a toy figure according to the present invention.

Fig. 7 is a bottom view of the toy figure of Fig. 6.

Fig. 8 is a fragmentary cross-sectional view of a foot of the toy figure of Fig. 6 taken on the line 8-8 of Fig. 6.

Fig. 9 is another fragmentary cross-sectional view of a foot of the toy figure of Fig. 6, the cross section being taken on a line 9-9 of Fig. 8.

<u>Detailed Description</u>

In the following description, and in the drawing, like reference characters, when used among the various figures of the drawing, refer to like elements or features.

Referring to Fig. 1, reference character 10 generally refers to a toy figure according to one embodiment of the

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present invention. Specifically, toy figure 10 represents the larger embodiment of the two embodiments of toy figures disclosed herein, which larger embodiment is shown in Figs. 1-5.

Toy figure 10 as shown in Figs. 1-5 is configured to produce a waddling action utilizing all or most of the fingers of both hands of the human user, i.e., a left human hand 12 with fingers generally referred to by reference numeral 13, and a right human hand 14 with fingers generally referred to by reference character 15.

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Toy figure 10 includes a body 20 resembling the body of a creature, which body has an axis 22 which extends generally vertically when the toy figure is in an upright condition. Coupled with the body are a pair of feet 30, 40. Left foot 30 has a lengthwise axis 32, a front 34, which front is spaced from the body 20, and a base 35 representing a region near the back of foot 30 where the foot is coupled to body 20. Foot 30 includes a pocket 36 having an entry opening 37 therein for receiving at least part of a human hand.

Similarly, right foot 40 includes a lengthwise axis 42, a front 44 spaced from body 20, and a base 45 representing the back of the foot and also representing the region at which the foot 40 is coupled with body 20. Foot 40 includes pocket 46 which can be accessed via opening 47 for insertion of at least part of the user's other hand.

The user's left hand 12 is placed in pocket 36 of foot 30 via opening 37. Likewise, the user's right hand 14 is placed in pocket 46 of right foot 40 via opening 47. Arrows 48 in Fig. 5 show the direction in which hands 12, 14 are inserted into pockets 36, 46.

Body 20 is constructed of a flexible fabric enclosure 50 (best seen in the cutaway area of body 20 illustrated in Fig. 4). The fabric enclosure 50 is preferably a soft, plush textile material. Enclosure 50 is filled with a

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soft, cushiony, stuffed material 52 (see the cutaway portion of Fig. 4), as is well-known with stuffed animals.

Feet 30, 40 are also preferably constructed of a flexible fabric material 55 forming a pair of enclosures. That is, the fabric 55 of feet 30, 40 is formed to provide the pockets 36, 46. Preferably, the same fabric material is used for the fabric enclosure 55 forming the feet 30, 40 as is used for the fabric enclosure 50 forming the body 20. Preferably, too, the feet are at least partially padded with a soft, cushiony, stuffed material or padding 58 (see the cutaway portion of foot 30 of Fig. 4) on the upperside of feet 30, 40 in the particular embodiment of Figs. 1-5.

To produce the waddling action for the toy figure 10, the user will move the fingers of one hand, say the left hand 12, in an upward and downward arcuate swinging or sweeping movement and then alternately move the fingers of the right hand 14 through the same kind of movement. alternate right hand and left hand sweeping movement is repeated to produce the waddling action, and the hands may also be moved forward at the same time so that the movement resembles forward progress of the toy figure 10 as it waddles along surface 61 (Fig. 3). The upward sweeping movement is shown in phantom lines and by arrows 60 in Specifically, the tips of the fingers 13, 15 of the user are moved up, and then down as shown by arrow 62 in Fig. 3, while the base of the fingers 13, 15 remains relatively still, as compared with the tips of fingers, to provide the pivoting, swinging or sweeping action.

During this pivoting, swinging or sweeping action of the fingers 13, 15 of hands 12, 14, the body 20 of toy figure 10 will also move from side to side as shown by phantom lines 64 and arrow 65 in Fig. 4. This side to side movement enhances the resemblance of the motion to waddling and adds to the entertainment, play and amusement value of the toy figure 10. In this regard, swinging

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movement of the fingers 13 of the left hand 12 effect movement of the body 20 in the opposite direction, i.e., to the right, and vice versa.

The smaller embodiment of Figs. 6-9 and the method of using that embodiment is similar in most respects to that 5 of the previously described, larger embodiment of Figs. 1-5, except that the toy figure is smaller, and the pocket of each foot is sized and configured to receive only a single finger. The toy figure of the embodiment of Figs. 6-9 is generally referred to by reference numeral 110. 10 Toy figure 110 is, as indicated, activated by individual fingers, preferably index finger 112 of one hand 12 and the finger 114 next to index finger 112. While the movement of toy figure 110 will be described by referring to movement of two fingers of one hand, it will be 15 understood that one finger, such as the index finger, of one hand may be used to activate one foot, and a single finger of the other hand may be used to activate the other foot.

Toy figure 110 has a body 120 resembling the body of a creature. Body 120 has an upright axis 122 comparable to axis 22 in the previously described embodiment.

Coupled to the body 120 is a left foot 130 and a right foot 140. Left foot 140 includes an axis 132, a front 134 disposed away from the body, and a base 135 where the left foot 130 is coupled to the body 120. Left foot 130 also includes a pocket 136 for receiving finger 112 through opening 137 to the pocket. Pocket 136 is sized and configured to snugly receive finger 112.

Similarly, toy figure 110 includes a right foot 140 coupled to body 120. Right foot 140 includes an axis 142, a front 144 disposed remotely from body 120, a base 145 disposed adjacent body 120 and a pocket 146 to which access is gained via opening 147. Of course, pocket 146 is sized and configured to snugly engage finger 114.

The waddling action in the toy figure 110 is produced in essentially the same manner as described and

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illustrated in connection with toy figure 10 of the previous embodiment, except that the alternate upward sweeping action is effected by individual fingers 112, 114 rather than by all or most of the fingers of two hands, as in the previous embodiment. The fabric enclosure and filling thereof with a stuffed material is preferably the same in toy figure 110 as in toy figure 10 except that the feet 130, 140 of toy figure 110 do not require the upper padding 58 as shown in Fig. 4 of the previously described embodiment.

As will be seen from the drawing, the toy figures 10, 110 of the present invention both preferably resemble stuffed animals, and, in particular, both preferably resemble highly characterized stuffed animals. Toy figure 10 of the first, larger embodiment is a highly characterized walrus, whereas toy figure 10 of the smaller embodiment is a highly characterized dog.

While the present invention has been described in connection with two particular preferred embodiments, it will be understood that any additional embodiments, variations, modifications and the like are possible within the spirit and scope of the appended claims.

What Is Claimed Is:

- 1. A toy figure capable of movement resembling waddling, which movement is effected by use of at least part of a human hand of the user, the toy figure comprising:
- a) a body having an axis which extends generally vertically when the toy figure is in an upright condition;
- b) a pair of feet coupled with said body, each foot of said pair of feet having a lengthwise axis, each foot having a front, which front is spaced from said body, said axis of each foot extending generally perpendicularly to said axis of said body; and
- c) each foot having a pocket therein for receiving at least part of a human hand, said pocket of each foot extending toward the front of each foot in the direction of said axis of said foot, such that said part of said human hand, when inserted in said pocket, will also extend along said axis of said foot in a direction toward the front of the foot.
- 2. A toy figure as defined in claim 1, wherein each pocket is of such size and configuration as to snugly accommodate at least the majority of the fingers of one human hand, whereby one human hand is inserted into the pocket of one foot and the other human hand is inserted into the pocket of the other foot.
- 3. A toy figure as defined in claim 1, wherein each pocket is of such size and configuration as to snugly accommodate one finger of a human hand, whereby one finger is inserted into the pocket of one foot and another finger is inserted into the pocket of the other foot, so that a pair of human fingers may be used to produce a waddling action.

- 4. A toy figure as defined in claim 1, wherein said body is constructed of a flexible fabric enclosure filled with a soft, cushiony, stuffed material.
- 5. A toy figure as defined in claim 4, wherein said feet are also constructed of a flexible fabric material formed to provide said pockets.
- 6. A toy figure as defined in claim 5, wherein said feet are at least partially padded with a soft, cushiony stuffed material.
- 7. A toy figure as defined in claim 1, wherein said body and feet, as a whole, are formed to create a stuffed animal.
- 8. A method of producing a waddle-like action in a toy figure, which toy figure includes a body with an axis which extends generally vertically when the toy figure is in an upright condition, and a pair of feet coupled with the body, each foot of the pair having a front and having a lengthwise axis extending generally perpendicularly to the axis of the body, each foot having a pocket therein extending toward the front of the foot in the direction of the axis of the foot, the method comprising the steps of:
- a) inserting at least one part of a human hand into a pocket in one foot of the toy figure so that the one part of the hand extends generally perpendicularly to the axis of the body of the figure and along the axis of the one foot toward the front of the foot;
- b) inserting at least another part of a human hand into a pocket in another foot of the toy figure, so that the other part of the hand extends generally perpendicularly to the axis of the body of the figure and along the axis of the other foot toward the front of that other foot; and

- c) alternately moving the one part of a human hand and then the other part of the human hand in an upwardly, then downwardly, swinging arc to produce an action resembling waddling.
- 9. A method as defined in claim 8, wherein said step of inserting at least one part of a human hand into a pocket includes inserting at least the majority of the fingers of one human hand into the pocket, and wherein said step of inserting at least another part of a human hand into a pocket includes inserting at least the majority of the fingers of that other human hand into the pocket, so that two separate human hands are used to produce the waddling action.
- 10. A method as defined in claim 8, wherein said step of inserting at least one part of a human hand into a pocket includes inserting one finger of one human hand into the pocket, and wherein said step of inserting at least another part of a human hand into a pocket includes inserting another finger of the same human hand into the pocket, so that two fingers of one hand are used to produce the waddling action.

AMENDED CLAIMS

[received by the International Bureau on 14 October 1988 (14,10.88)

original claims 1-10 cancelled; new claims 11-20 added (4 pages)]

- --11. A toy figure capable of movement resembling waddling, which movement is affected by at least part of a human hand of the user, the toy figure comprising:
- (a) a body having an axis that extends generally vertically when the toy figure is in an upright position;
- (b) a pair of feet coupled to said body, each foot of said pair of feet having a lengthwise axis, each said lengthwise axis extending generally perpendicularly to said axis of said body, said lengthwise axes further forming, in the generally horizontal plane they define, an outwardly diverging angle as needed to produce a waddling movement, each foot having a front spaced from said body; and
- (c) each foot having a pocket therein for receiving part of a human hand, said pocket of each foot extending toward the front of said foot in the direction of said axis of said foot, such that said part of said human hand, when inserted in said pocket, will also extend along said axis of said foot in a direction toward the front of said foot.
 - 12. The toy figure of claim 11, wherein each said pocket is padded about all of its interior surfaces.
- 13. The toy figure of claim ll, in which the said body has a rotund portion, said pair of feet coupled directly to said rotund portion; wherein the direct coupling of the rotund body portion of the toy figure to said pair of feet, without any portion therebetween approximating or resembling legs, inherently induces a waddling motion and prevents other types of motion.
- 14. The toy figure of claim 13, further including a head portion fixedly attached to the said rotund portion, whereby the waddling motion of said toy figure produces a responsive side-to-side movement of said head.

- 15. The toy figure of claim 11, wherein the openings in each said pocket form an angle that diverges in the direction of the rear portion of said toy figure.
- 16. A method of producing a waddle-like action in a toy figure, which toy figure includes a body with an axis extending generally vertically when the toy figure is in an upright position and a pair of feet coupled to said body, each foot of the pair having a front and a lengthwise axis extending generally perpendicularly to the axis of the body, each foot having a pocket therein extending toward the front of said foot in a direction of the axis of the foot, the method comprising the steps of:
- (a) inserting at least part of a human hand into a pocket in one foot of the toy figure so that the one part of the hand extends generally perpendicularly to the vertical axis of the figure and along the axis of the one foot toward the front of the foot;
- (b) inserting at least another part of a human hand into a pocket of another foot of the toy figure, so that the other part of the hand extends generally perpendicularly to the axis of the body of the figure and outwardly diverges with respect to the axis of the other foot in the direction toward the front of that other foot; and
- (c) alternately moving one part of the human hand and the other part of the human hand in an upwardly, then downwardly, swinging arc to produce an action resembling waddling.
- 17. The method of claim 16, in which the pocket of each foot is padded about all of its interior surfaces.
- 18. The method of claim 16, in which the toy figure includes a body having a generally rotund portion and a pair of feet coupled to said body, whereby the direct coupling of the rotund portion of the toy figure to said pair of feet, without

any portion therebetween approximating or resembling legs, inherently produces a waddling motion and prevents other types of motion.

- 19. A toy figure capable of movement resembling waddling, which movement is effected by use of at least part of a human hand of the user, the toy figure comprising:
- (a) a body having a rotund portion with an axis which extends generally vertically when the toy figure is in an upright position;
- (b) a pair of feet coupled to the rotund portion of said body, each foot of said pair of feet having a lengthwise axis, each said lengthwise axis extending generally perpendicularly to said axis of said body, said lengthwise axes further forming, in the generally horizontal plane they define, an outwardly diverging angle as needed to produce a waddling movement, each foot having a front spaced from said body; and
- (c) each foot having a pocket therein for receiving part of a human hand, said pocket of each foot extending toward the front of each foot in the direction of said axis of said foot, each said pocket being padded about all of its interior surfaces, the opening in each said pocket forming an angle that diverges in the direction of the rear portion of said toy figure, each said part of said human hand when inserted in each said pocket extending along said axis of said foot in a direction toward the front of the foot; whereby the direct coupling of the body of the toy figure to said pair of feet, without any portion therebetween approximating or resembling legs, and the angular orientation of the pockets and pocket openings in said feet inherently produce a waddling motion in the toy figure and prevent other types of motion.

20. The toy figure of claim 19, further including a head portion fixedly attached to said rotund portion, whereby the waddling motion of said toy figure produces a side-to-side movement of said head.--

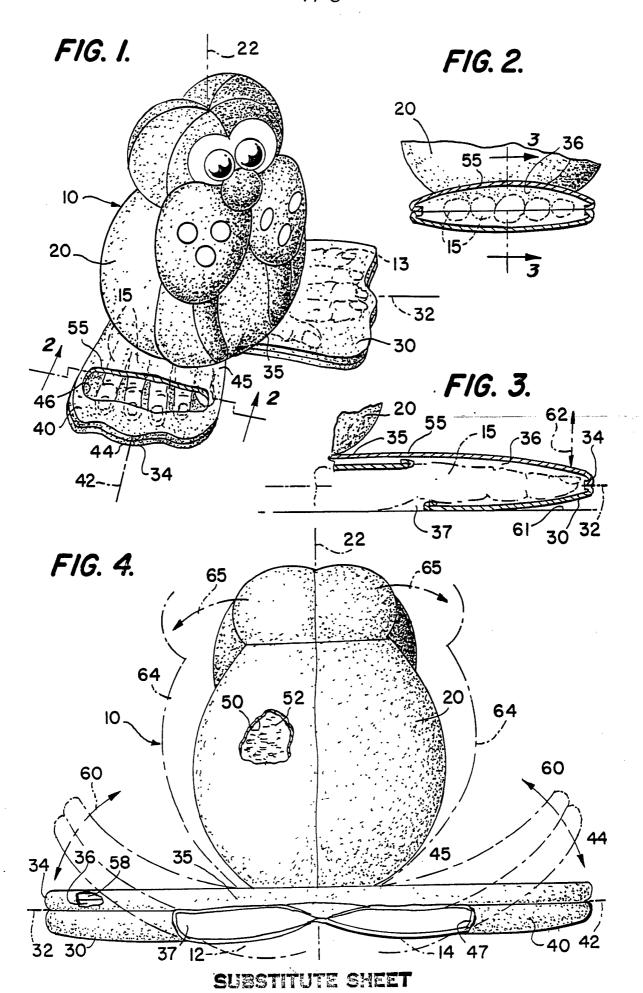
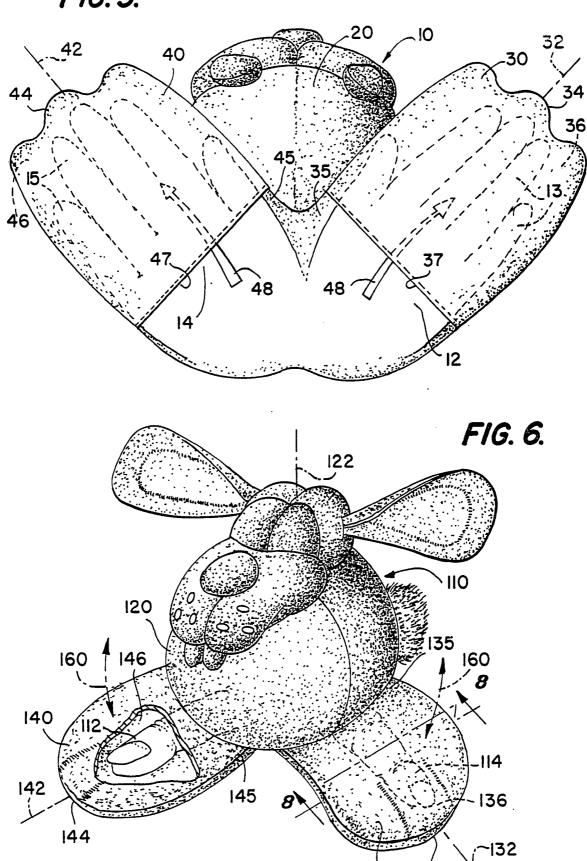


FIG. 5.

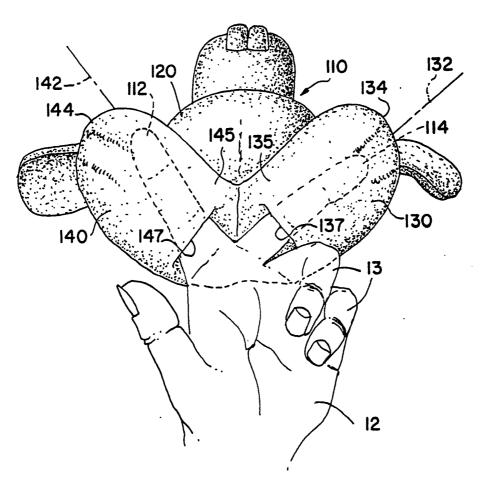


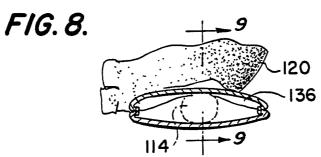
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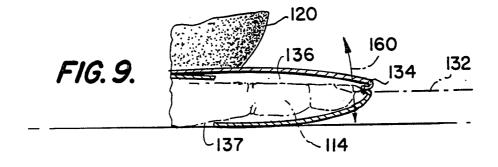
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FIG. 7.







SUBSTITUTE SHEET

INTERNATIONAL SEARCH REPORT

International Application NoPCT/US 88/01564

I. CLASS	IFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) 6	
According	to international Patent Classification (IPC) or to both National Classification and IPC	
IPC ⁴ :	A 63 H 3/14	
II. FIELDS	S SEARCHED Minimum Documentation Searched 7	
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IPC ⁴	A 63 H	
	Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸	
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	MENTS CONSIDERED TO BE RELEVANT ⁵ Citation of Document, ¹¹ with Indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. 13
Category *		
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Y		3,10
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ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO.

US 8801564

SA 22566

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 06/09/88

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A- 4300307	17-11-81	None	
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US-A- 3613301	19-10-71	None	
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