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PACIFIER WITH CLEANING PROTRUSIONS

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BACKGROUND OF THE INVENTION

The present invention relates to a pacifier having a base section and a sucking or nipple section on which are provided with a plurality of cleaning or massage protrusions which can be in the form of rings, lines or dots so that when a baby sucks hard on the nipple section, the same will deform; and when it is relaxed the nipple section will resume its shape. Such repeated deformation and resumption of the shape of the sucking or nipple section of a pacifier can keep the top of its tongue cleaned and massaged at the same time, and make its mouth muscles exercise too. Such pacifier readily removes food residues in a mouth and particularly on the top of a tongue when sucked and bitten by a baby, facilitating a mother in keeping her baby's mouth in a hygienic condition without using other cleansing tools.

As it is well known that in a baby nursing process in which foods, especially milk or food of the like, are mainly fed by means of a milk bottle with a pacifier. Milk or milk-related food becomes easily soured in mouth and is bad for teeth because bacteria can propagate fast as a result of residues stuck to the teeth or the top of a tongue of a baby.

A nursing mother usually uses a tooth brush, or a

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cotton stick or a piece of gauze, a tongue scrubber, etc. to remove food residues in a mouth. Besides, there are a number of, in addition to a bare finger as shown in Fig. 1b, finger mounted cleansing tools also commonly used to clean a baby's teeth, tongue or mouth, as shown in Figs. 1, 1A, 1C, 1D. This way of cleaning a baby's mouth can make it frightened and painful or uncomfortable.

SUMMARY OF THE INVENTION

Therefore, the primary object of the present invention is to provide a pacifier having a plurality of protruded dots or rings around the sucking portion thereof so as to permit a baby to cleanse its mouth or the top of its tongue automatically when the pacifier is sucked and bitten in mouth.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a diagram showing the conventional way of cleaning a baby's mouth with a finger-mounted tool;

Fig. 1A shows a finger wrapped with a piece of gauze;

Fig. 1B shows a bare finger as a primitive tool for cleaning a baby's mouth;

Fig. 1C shows a finger with a tongue scrubber mounted



thereto;

Fig. 1D shows a tooth brush mounted to a finger;

Fig. 2A is a top view of a pacifier of the present invention;

Fig. 2B is a plane view of the pacifier of the present invention;

Fig. 2C is a perspective diagram showing the pacifier of the present invention;

Fig. 3A is a sectional view of the first embodiment thereof;

Fig. 3B is a sectional view of the second embodiment thereof;

Fig. 3C is a sectional view of the third embodiment thereof;

Fig. 3D is a sectional view of the fourth embodiment thereof;

Fig. 4 is a diagram showing a baby sucking on a pacifier of the present invention;

Figs. 4A, 4B and 4C are diagrams showing the practical operations of the pacifier in the mouth of a baby.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Fig. 2, the pacifier of the present invention is made of resilient materials such as silicone or material of the like. On the sucking or nipple section of

the pacifier are provided with proper protruded lines or rings or dots 1. The pacifier has an enlarged base section 2 for preventing a baby from swallowing the same.

Referring to Fig. 4A, when a baby sucks on the sucking or nipple section of the pacifier of the present invention and makes the same slide inward. The sucking section will be pressed slightly flat and extended into deformation, as shown in Fig. 4B, by the tongue and the muscle of the lower jaw, making the pacifier to come close abutment against the top of the tongue. While the muscles of the mouth of a baby are relaxed, the pacifier, as shown in Fig. 4C, will resume its shape. In the repeated process of the pacifier deforming and resuming its shape, the protruded ring, lines or dots, due to the resilience of the pacifier, can scrub the residues on the top of a tongue off effectively and massage the same simultaneously.

CLAIM

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I claim:

1. A pacifier having a base section and a sucking or nipple section being characterized in that on said sucking or nipple section made of resilient material are disposed a plurality of protrusions whereby the top of the tongue of a baby can be cleaned and massaged when said sucking or nipple section is sucked by the baby into deformation and relaxed to resume its shape continuously.
2. A pacifier as claimed in claim 1 wherein a plurality of said protrusions on said sucking or nipple section are parallelly disposed rings.

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ABSTRACT OF THE DISCLOSURE

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An improved pacifier has a base section and a sucking or nipple section on which are disposed a plurality of protrusions of various shapes so that when a baby sucks hard on the sucking or nipple section will force the same into deformation and when the nipple section is relaxed, the same will resume its shape. Continuous deformation and resumption of its shape, the protrusions on the sucking or nipple section of the pacifier will scrub and massage the top of the tongue of a baby simultaneously.

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Fig. 1

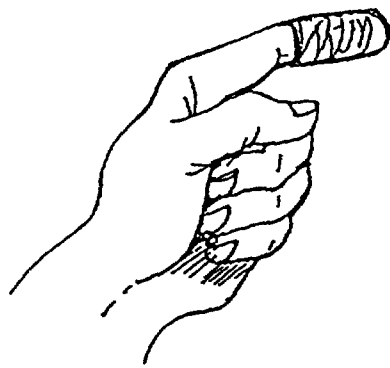


Fig. 1A



Fig. 1B



Fig. 1C

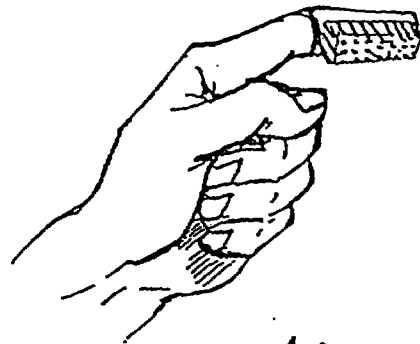


Fig. 1D



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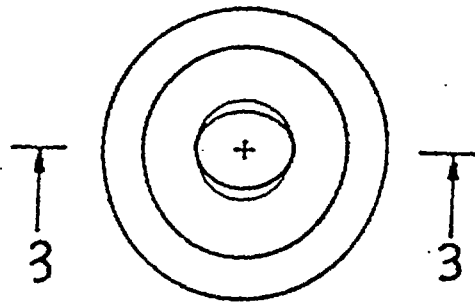


Fig. 2A

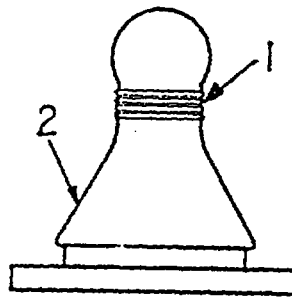


Fig. 2B

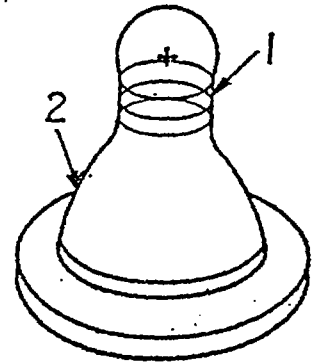


Fig. 2C

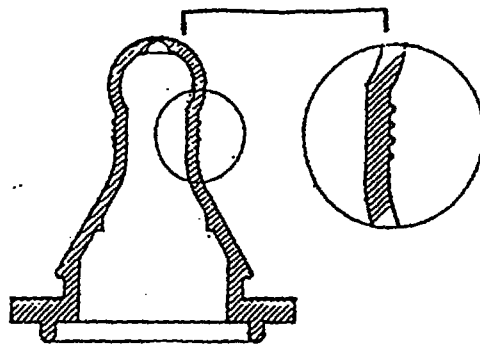


Fig. 3A

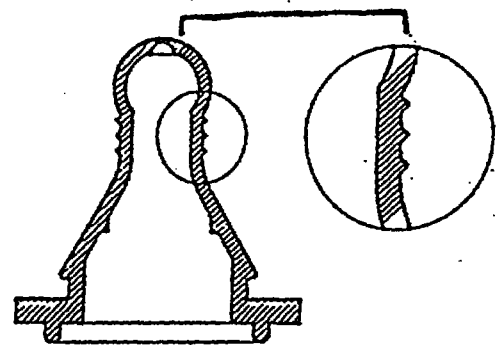


Fig. 3B

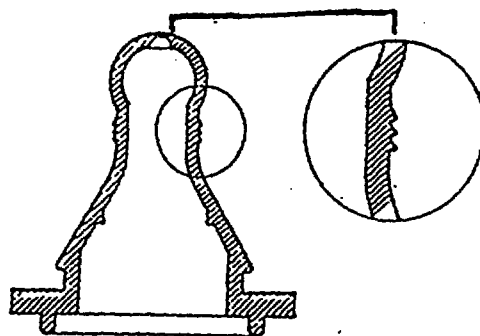


Fig. 3C

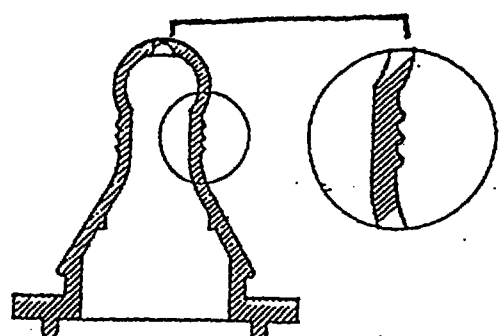


Fig. 3D

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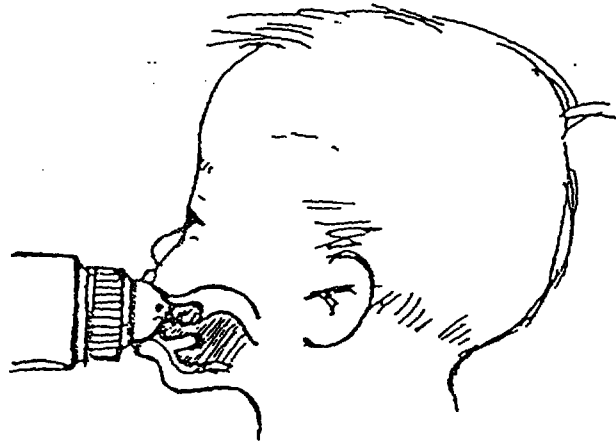


Fig. 4

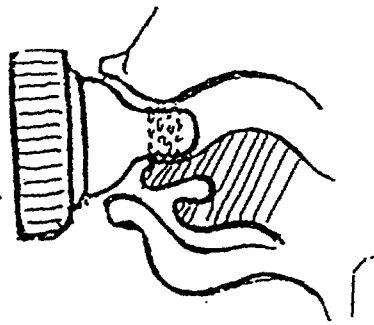


Fig. 4A

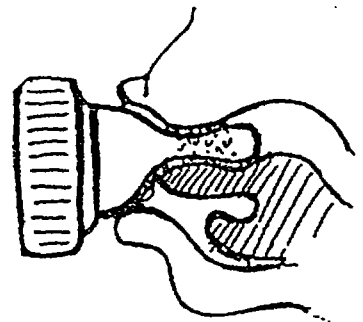


Fig. B

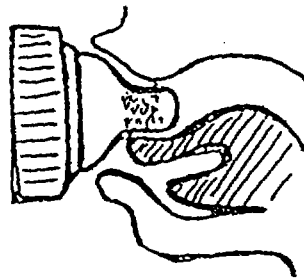


Fig. 4C



05 MAR 1996

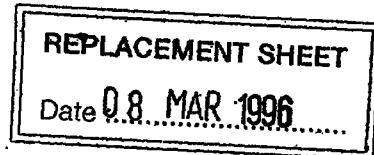
Date

PACIFIER WITH CLEANING PROTRUSIONS 08 MAR 1996BACKGROUND OF THE INVENTION

The present invention relates to a pacifier having a base section and a sucking or nipple section on which are provided with a plurality of cleaning or massage protrusions which can be in the form of rings, lines or dots so that when a baby sucks hard on the nipple section, the same will deform; and when it is relaxed the nipple section will resume its shape. Such repeated deformation and resumption of the shape of the sucking or nipple section of a pacifier can keep the top of its tongue cleaned and massaged at the same time, and make its mouth muscles exercise too. Such pacifier readily removes food residues in a mouth and particularly on the top of a tongue when sucked and bitten by a baby, facilitating a mother in keeping her baby's mouth in a hygienic condition without using other cleansing tools.

As it is well known that in a baby nursing process in which foods, especially milk or food of the like, are mainly fed by means of a milk bottle with a pacifier. Milk or milk-related food becomes easily soured in mouth and is bad for teeth because bacteria can propagate fast as a result of residues stuck to the teeth or the top of a tongue of a baby.

A nursing mother usually uses a tooth brush, or a



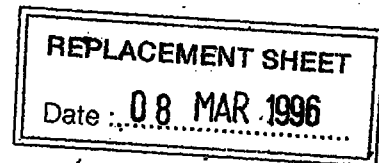
cotton stick or a piece of gauze, a tongue scrubber, etc. to remove food residues in a mouth. Besides, there are a number of, in addition to a bare finger as shown in Fig.1b, finger mounted cleansing tools also commonly used to clean a baby's teeth, tongue or mouth, as shown in Figs.1, 1A,,1C,1D. This way of cleaning a baby's mouth can make it frightened and painful or uncomfortable.

SUMMARY OF THE INVENTION

Therefore, the primary object of the present invention is to provide a pacifier having a plurality of protruded dots or rings around the sucking portion thereof so as to permit a baby to cleanse its mouth or the top of its tongue automatically when the pacifier is sucked and bitten in mouth.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a diagram showing the conventional way of cleaning a baby's mouth with a finger-mounted tool;
Fig. 1A shows a finger wrapped with a piece of gauze;
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Fig. 1C shows a finger with a tongue scrubber mounted



thereto;

Fig. 1D shows a tooth brush mounted to a finger;

Fig. 2A is a top view of a pacifier of the present invention;

Fig. 2B is a plane view of the pacifier of the present invention;

Fig. 2C is a perspective diagram showing the pacifier of the present invention;

Fig. 3A is a sectional view of the first embodiment thereof;

Fig. 3B is a sectional view of the second embodiment thereof;

Fig. 3C is a sectional view of the third embodiment thereof;

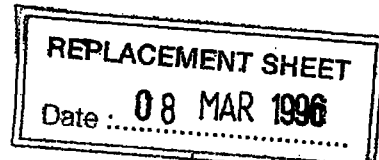
Fig. 3D is a sectional view of the fourth embodiment thereof;

Fig. 4 is a diagram showing a baby sucking on a pacifier of the present invention;

Figs. 4A, 4B and 4C are diagrams showing the practical operations of the pacifier in the mouth of a baby.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Fig. 2, the pacifier of the present invention is made of resilient materials such as silicone or material of the like. On the sucking or nipple section of



the pacifier are provided with proper protruded lines or rings or dots 1. The pacifier has an enlarged base section 2 for preventing a baby from swallowing the same.

Referring to Fig. 4A, when a baby sucks on the sucking or nipple section of the pacifier of the present invention and makes the same slide inward. The sucking section will be pressed slightly flat and extended into deformation, as shown in Fig. 4B, by the tongue and the muscle of the lower jaw, making the pacifier to come close abutment against the top of the tongue. While the muscles of the mouth of a baby are relaxed, the pacifier, as shown in Fig. 4C, will resume its shape. In the repeated process of the pacifier deforming and resuming its shape, the protruded ring, lines or dots, due to the resilience of the pacifier, can scrub the residues on the top of a tongue off effectively and massage the same simultaneously.

CLAIM

REPLACEMENT SHEET

Date : 08 MAR 1986

I claim:

1. A pacifier having a base section and a sucking or nipple section being characterized in that on said sucking or nipple section made of resilient material are disposed a plurality of protrusions whereby the top of the tongue of a baby can be cleaned and massaged when said sucking or nipple section is sucked by the baby into deformation and relaxed to resume its shape continuously.
2. A pacifier as claimed in claim 1 wherein a plurality of said protrusions on said sucking or nipple section are parallelly disposed rings.



* C L M S *

REPLACEMENT SHEET
Date 08 MAR 1996

PACIFIER WITH CLEANING PROTRUSIONS

ABSTRACT

An improved pacifier has a base section and a sucking or nipple section on which are disposed a plurality of protrusions of various shapes so that when a baby sucks hard on the sucking or nipple section will force the same into deformation and when the nipple section is relaxed, the same will resume its shape. Continuous deformation and resumption of its shape, the protrusions on the sucking or nipple section of the pacifier will scrub and massage the top of the tongue of a baby simultaneously.

(Figures 1 and 4)

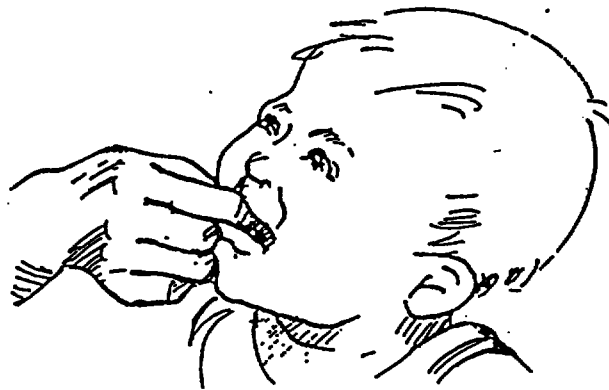


Fig. 1

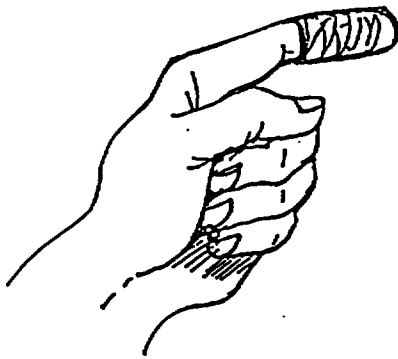


Fig. 1A



Fig. 1B

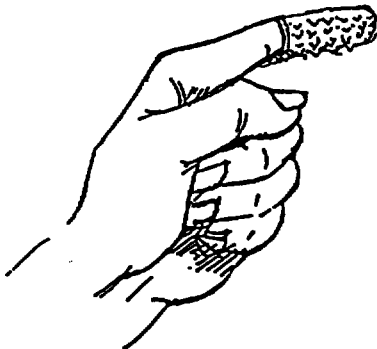


Fig. 1C

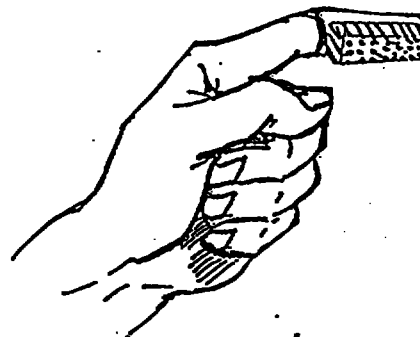
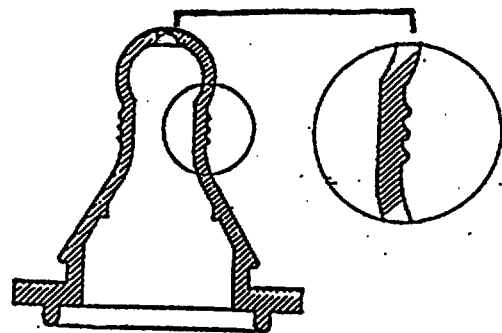
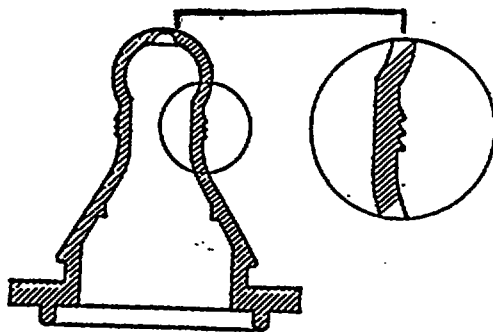
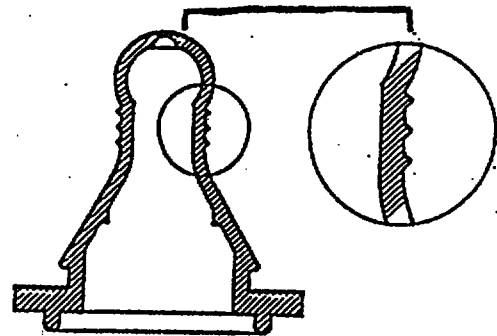
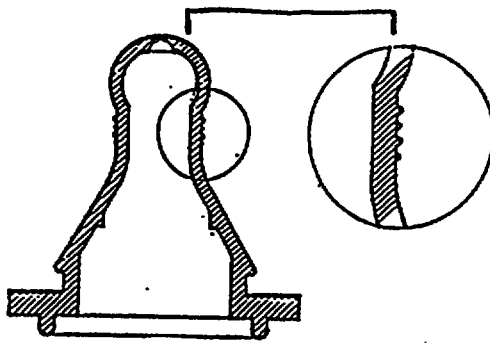
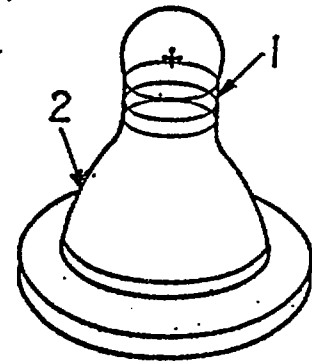
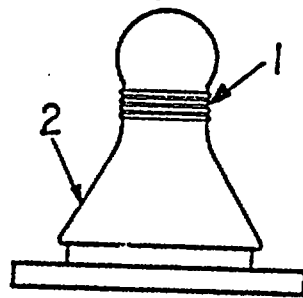
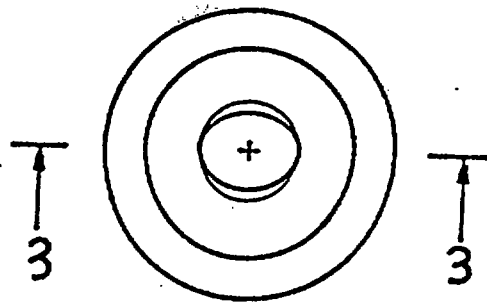
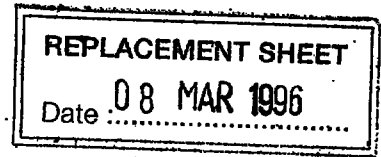


Fig. 1D



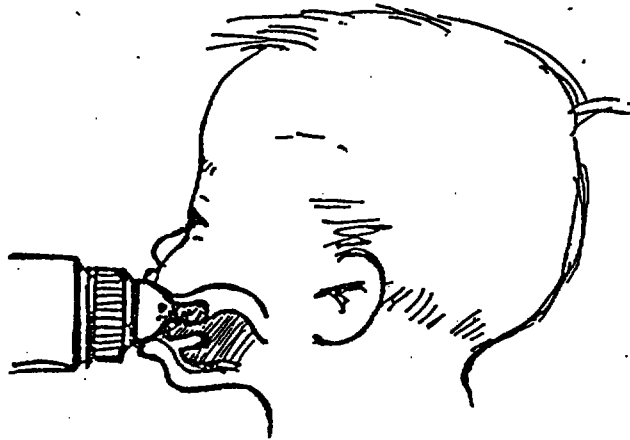


Fig. 4

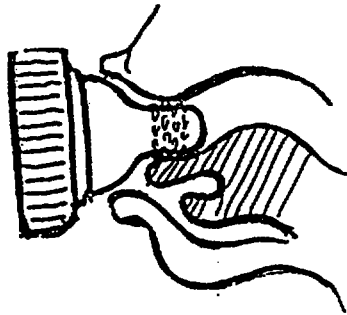


Fig. 4A

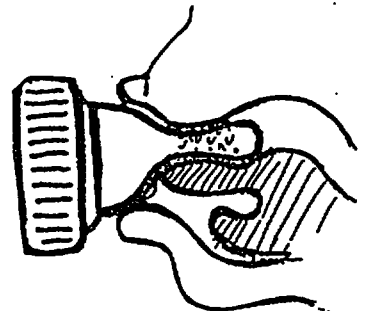


Fig. B

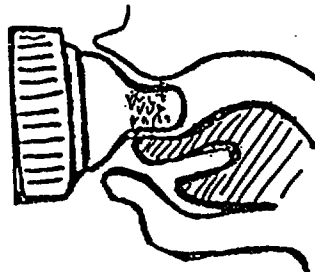


Fig. 4C