J. TWEEDDALE.

STRAINER FOR NURSING BOTTLES.

APPLICATION FILED SEPT. 6, 1911.

1,041,378. Patented Oct. 15, 1912.

Fig. 1.

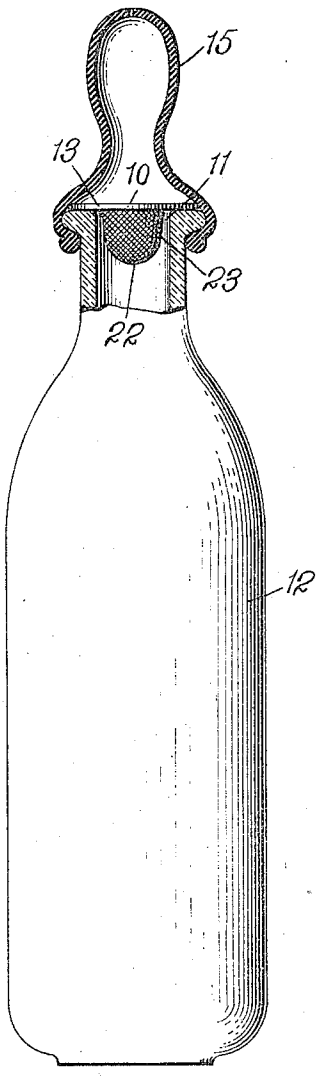



Fig. 2.

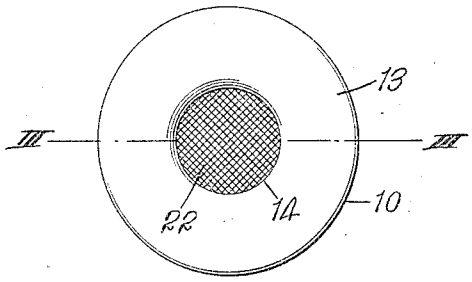



Fig. 3.

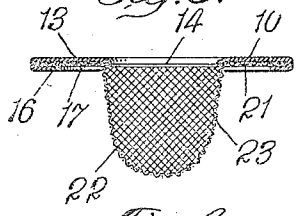



Fig. 4.

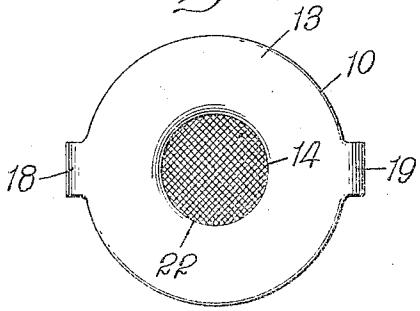
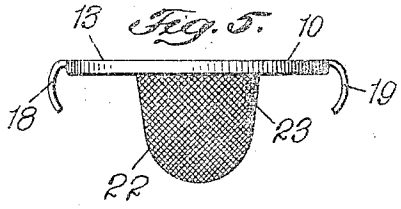



Fig. 5.

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# UNITED STATES PATENT OFFICE.

JEAN TWEEDDALE, OF NEW YORK, N. Y.

## STRAINER FOR NURSING-BOTTLES.

1,041,378. Specification of Letters Patent. Patented Oct. 15, 1912.

Application filed September 6, 1911. Serial No. 647,961.

*To all whom it may concern:*

Be it known that I, JEAN TWEEDDALE, a citizen of the United States, and a resident of New York, borough of Brooklyn, county of Kings, and State of New York, have invented a certain new and useful Improvement in Strainers for Nursing-Bottles, of which the following is a full, clear, and exact specification.

This invention relates more particularly to a class of devices or strainers adapted for use in conjunction with nursing bottles.

My invention has for its object primarily to provide a strainer or device designed to be applied to the mouth of especially nursing bottles whereby an infant while being fed with liquid nourishment will be prevented from partaking of all solid or semi-solid substances which the food may contain, and which will enable the infant to be conveniently fed by preventing the passage of the feed aperture of the nipple of the bottle from becoming obstructed.

A further object of the invention is to provide a strainer of a compact, inexpensive and efficient form adapted to be readily applied to a nursing bottle, or removed therefrom and which will permit of being easily cleaned and sterilized at desired intervals.

A practical embodiment of the invention is represented in the acompanying drawing forming a part of this specification in which similar characters of reference indicate corresponding parts in all the views, the said invention being more fully described hereinafter and then pointed out in the appended claims.

In the drawing, Figure 1 is an elevation, partly in section, of a nursing bottle and nipple with one form of my improved strainer applied thereto. Fig. 2 is a top plan of the strainer. Fig. 3 is a section taken on the line III—III of Fig. 2. Fig. 4 is a top plan of a form of the strainer provided with a plurality of gripping members, and Fig. 5 is a side view of the strainer shown in Fig. 4.

The strainer or device 10 may be applied upon the mouth 11 of any suitable form of nursing bottle, as 12, and said strainer has a supporting member 13 which is centrally apertured, at 14. The supporting member 13 is preferably circular in shape and the aperture 14 is likewise circular so that said member may be in the form of an annular band or ring. The supporting member or annular band may be made of thin sheet metal, rubber, or any other desired material in order to occupy a limited space when resting upon the top of the neck of the bottle, and to permit an elastic nipple, as 15, to be readily guided thereover when fitted over the mouth of a nursing bottle, as shown in Fig. 1. Upon the outer edge of the band 13 is an annular flange 16 which is disposed underneath the band and is spaced a slight distance from the underside thereof so as to provide a concentric groove 17, or instead of said annular flange the outer peripheral edge of the band may be curved similar to a beading.

As shown in Figs. 4 and 5, I may provide upon the outer edge of the annular band 13 a plurality of gripping members, clips, or hooks, as 18 and 19, which are adapted to engage the beaded lip on the exterior of the mouth of the nursing bottle when the device is applied thereto, though, as described and illustrated, said clips may be dispensed with, if desired.

Within the groove 17 and clamped between the flange 16 and the opposed surface of the band 13 is a flange 21 of a depending part or straining member 22. The straining member 22 may be of open-mesh or perforated material, such as wire cloth, or the like, so as to allow the liquid food to flow freely therethrough, and by plating said straining member as well as the supporting member 13 with nickel, silver, or other non-corrosive material the device may be readily cleaned and sterilized at suitable intervals. The straining member 22 is substantially cup-shaped or has a tapered annular wall 23 which is in alinement with the peripheral edge of the band 13 at the opening 14 thereof whereby said straining member will be spaced some distance from the inner surface of the neck of the nursing bottle when inserted in its mouth, as shown in Fig. 1. By this arrangement it is evident that when an infant is feeding, and the bottle is tilted in the usual manner the solid or semi-solid substance of the liquid food will collect in the space between the annular wall 23 of the straining member 22 and neck of the bottle, and the food will continue to flow properly through the perforations or interstices of the end of the tapered straining member 20. Moreover, the feed-aperture of the nipple will thereby be prevented from being obstructed, and obviates the necessity

of enlarging the feed-aperture of the nipple which often results in the infant strangling owing to excessive flow of the liquid food.

In the foregoing description I have embodied the preferred form of my invention, but I do not wish to be understood as limiting myself thereto, as I am aware that modifications may be made therein without departing from the principle or sacrificing any of the advantages of this invention, therefore I reserve to myself the right to make such changes as fairly fall within the scope thereof.

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

1. A strainer, adapted to be used in conjunction with bottles, comprising a flat circular disk, having a circular opening in the center thereof, and a depending flange around said opening, a flange upon the outer edge of said disk, adapted to engage a straining member, a straining member comprising a cup-shaped depending part adapted to fit within the mouth of a bottle, and an integral extended flange, whereby the same is secured to the said disk, by means of said outer flange on the said disk, clips integrally formed with the said flat circular disk, and upon the outer edge thereof, adapted to secure the device to the mouth of a bottle.

2. A strainer, adapted for nursing bottles, comprising a flat circular disk, adapted to rest upon the top of the mouth of the bottle, and contact closely therewith, said disk having a circular opening in the center thereof, surrounded by a depending flange adapted to engage and register with the mouth of the bottle, an outer flange around the said disk, whereby a straining member is secured to the said disk, a straining member formed of woven wire cloth, cup-shaped in form and having an integral flange of woven wire cloth adapted to be engaged and secured by the said flange on the outer edge of said flat circular disk, and said depending cup-shaped part of said straining member adapted to fit within the mouth of said bottle, hooks integrally formed with the said flat circular disk and so adapted as to secure the said device in position closely adhering to the mouth of the bottle thereby admitting the use of said device in combinaton with an ordinary nipple such as are used for nursing bottles.

This specification signed and witnessed this fifth day of September A. D. 1911.

JEAN TWEEDDALE.

Witnesses:
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