

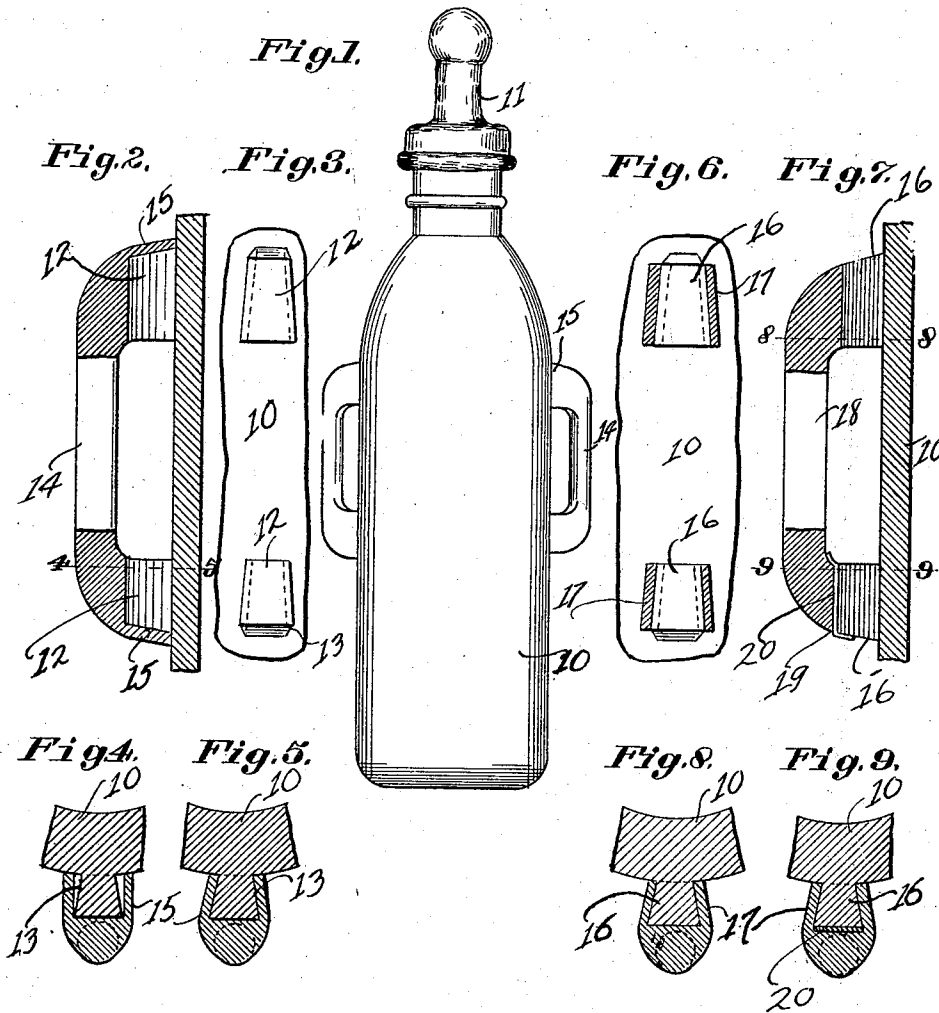
Feb. 8, 1927.

1,617,213

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HANDLE SECURING MEANS FOR BOTTLES

Filed Aug. 17, 1925



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Patented Feb. 8, 1927.

1,617,213

UNITED STATES PATENT OFFICE.

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HANDLE-SECURING MEANS FOR BOTTLES.

Application filed August 17, 1925. Serial No. 50,808.

This invention relates to means for attaching handles to bottles and has particular reference to a method of attaching separable handles to a bottle such as a nursing bottle.

5 The principal object of this invention is to provide simple and novel means for securing the handles to the bottle, which operation can be quickly and economically accomplished without danger of the handles becoming accidentally detached after secur-

15 A further object of this invention is to provide novel securing means whereby the handles can be readily attached without danger of breakage of the bottle during the securing or attaching operation.

20 Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

25 Figure 1 is a side elevation of a nursing bottle showing two handles secured thereon.

Figure 2 is a sectional view of the preferred type of handle, the handle in this instance being of pliable material,

30 Figure 3 is an elevational view of the lugs or retaining members formed on the bottle with a fragment of the bottle being herein illustrated,

35 Figure 4 is a cross sectional view on the line 4-5 of Figure 2, disclosing one extremity of the handle to be positioned over a retaining member,

40 Figure 5 is a similar view showing the side of the handle snugly engaging the retaining lug,

45 Figure 6 is a view similar to Figure 3, but of a modified form of handle with a portion of the handle being shown in section,

50 Figure 7 is a view similar to Figure 2, but disclosing a modified manner of securing the handle to the lugs, and

Figure 8 is a cross sectional view on the line 8-8 of Figure 7, of the modified type of handle,

55 Figure 9 is a similar view on the line 9-9 of Figure 7.

In my Patent Number 1,375,917, granted April 26th, 1921, I have set forth the purpose of securing guideways to nursing bottles, namely, to provide a nursing bottle that can be readily attached to a tape or band which can be secured to the sides of a cradle,

baby-carriage or any other article for the purpose of preventing said bottle from dropping and breaking, as well as to be located in such a manner that it can be reached easily by the infant, thus avoiding the necessity of constant watchfulness on the part of the mother or nurse.

60 In actual practice, I have found that it has been exceedingly difficult to cast or form guideways or handles near the center of a bottle surface, as this operation necessitates a thick heavy bottle, in order to prevent excessive amount of breakage in producing said bottle. It is apparent that an infant's bottle should be of light-weight material and it is practically impossible to obtain a light-weight nursing-bottle with guideways or handles formed thereon.

75 I, therefore, propose to secure separable handles or guideways to a light-weight, cheap bottle, such as a nursing-bottle, and in the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 10 designates a nursing-bottle equipped with the customary nipple 11. To this bottle I propose to secure, by casting or in any other convenient manner, lugs as indicated at 12.

85 It will be noted that these lugs are tapered and are, likewise, dove-tailed as at 13, the purpose of which will be hereinafter fully described. The numeral 14 designates a handle which is circular in cross section throughout the greater portion of its length and is equipped with two downwardly extending pocket-like extremities 15 which are internally recessed. In applying the handle to the lugs, the extremities 15 are positioned over the lugs and made to assume the position shown to advantage in Figure 4.

90 Since this type of handle is made of pliable material, the extremities will, upon sufficient pressure being exerted thereon, grip the lugs, as disclosed to advantage in Figure 5, and be so positioned that the inner surface of the extremities will snugly engage the lugs and due to the dove-tailed formation of the lugs, a positive gripping or binding of the parts will be accomplished.

105 It will be evident from this construction that the possibility of accidental displacement of the handle from the lugs will be reduced to a minimum, for lateral displacement cannot be obtained due to the fact that the internal sides of the shell-like members

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and the dove-tailed formation of the lugs cause a binding action between the mentioned parts, on the other hand, vertical displacement cannot be accomplished because of the contact of the ends of the pocket-like extremities, with the ends of the lugs.

In the modified form of the invention as disclosed in Figures 6 to 9, inclusive, the lugs 16 are of similar configuration as the lugs 12, namely, dove-tailed and tapered. However, the extremities 17 of the handle 18 differ from the extremities 15 inasmuch as the former are grooved as at 19 so as to permit the extremities to be readily affixed to the lugs by downward movement of the handle, with relation to the bottle. The dove-tailed effect of the extremities 17 and the lugs 16 serves to accomplish a positive gripping action. I propose to make this type of handle of non-yielding material so that the binding action will be completely and efficiently accomplished when the extremities are positioned over the lugs.

It will be further noted that one of the pocket-like members 17 is cut to a greater depth than the opposite extremity and in the extremity that is of greater depth, I propose to insert a thin flat metal clip 20 which serves as a locking member. This clip, being made of pliable metal, can be readily bent to assume the position, as disclosed in Figure 7.

Since the dove-tailed formation of the lugs 16 and the similar internal formation of the extremities 17 prevent the displacement of the handle upwardly, the application of the clip 20 likewise prevents the displacement of the handle in the opposite direction, thus assuring a positive locking of the handle on the lugs.

From the foregoing description taken in connection with the accompanying drawing, it will be evident that I have devised

a simple means whereby handles can be effectively and securely attached to a lightweight bottle, the manner and operation of securing being likewise simple and readily accomplished.

It is to be understood that the forms of my invention herewith shown and described are to be taken as preferred examples of the same, and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:—

1. In combination with a bottle, of spaced undercut lugs carried by said bottle, and a handle provided with grooved portions so constructed as to rigidly grip the undercut lugs for preventing displacement of said handle.

2. In combination with a bottle, of spaced undercut lugs positioned on one side of said bottle and corresponding spaced lugs on the opposite side of said bottle, of a handle provided with a pair of grooved pocket-like extremities for receiving therein the undercut lugs carried on one side of said bottle, and a second handle carried on the opposite side of said bottle.

3. In combination with a bottle, of spaced undercut lugs carried by said bottle, a handle being circular in cross section and provided with pocket-like recessed extremities for receiving therein the undercut lugs carried by said bottle one of said extremities being grooved to a greater depth than the opposite extremity, and a fastening element positioned in the deeply grooved extremity for effecting a locking action between the vertical extremity and its co-operating lug.

In testimony whereof I affix my signature.

LOUIE T. LA PAUGH.