

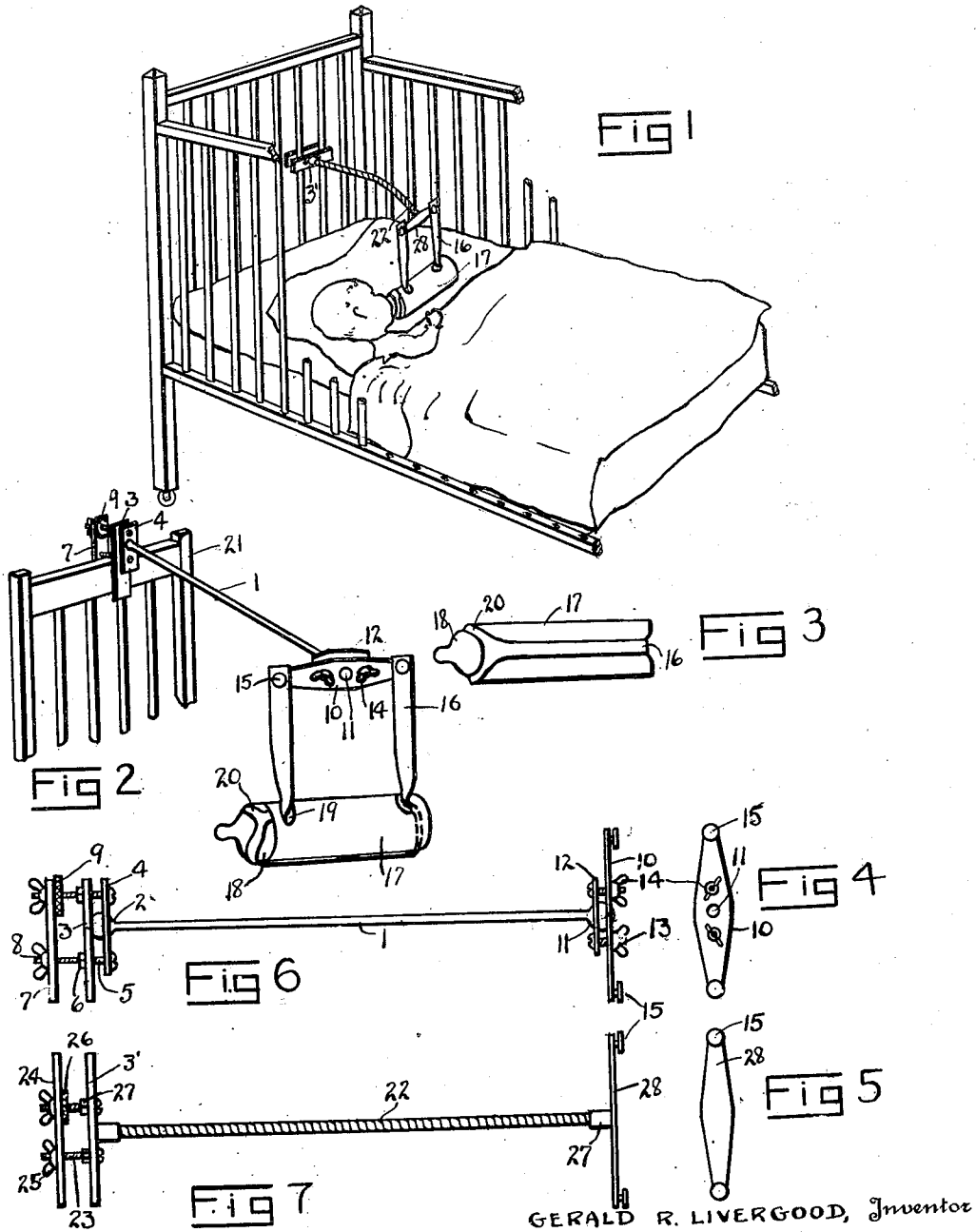
Dec. 17, 1929.

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HOLDER FOR NURSING BOTTLES AND THE LIKE

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UNITED STATES PATENT OFFICE

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HOLDER FOR NURSING BOTTLES AND THE LIKE

Application filed February 8, 1927. Serial No. 166,658.

My invention relates to means for supporting a nursing bottle in adjusted position ready for use.

It is an object of the invention to provide a means which may be attached to a crib or other support so that the nursing bottle is suspended in position ready for use. It is desired that the supporting structure which holds the bottle in position shall be capable of adjustment to different positions and that the bottle may be inclined in the manner desired.

It is a further object that the bottle be capable of attachment and detachment from the supporting structure and be readily removed therefrom for cleaning when desired. This application is somewhat similar in subject matter to my co-pending application Serial No. 189,285, filed May 6, 1927.

The invention resides particularly in the construction and relative arrangement of the parts and will be better understood from the more particular description in the specification which follows.

Referring to the drawing, Fig. 1 is a perspective view of a bed or crib showing my invention attached thereto, certain parts being broken away for greater clearness. Fig. 2 is a perspective view of the invention attached to an article of furniture, said furniture being shown in broken view. Fig. 3 is a bottom plan view of the nursing bottle showing the manner in which it is encased for connection to the support. Fig. 4 is an end view of the structure shown in Fig. 6. Fig. 5 is a similar end view of the structure shown in Fig. 7. Fig. 6 is a side elevation illustrating one form of my invention. Fig. 7 is a similar view illustrating a slightly modified form thereof. Like numerals of reference are employed to designate like parts in all the views.

In putting my invention into practice, I contemplate employing a supporting arm 1 secured at one end to a clamping bracket and at its other end to a bottle supporting plate. The ends of the rod 1, as shown particularly in Fig. 6, are made approximately spherical to form a part of a ball and socket joint by means of which the angle of adjustment of the arm relative to the plates with which it is

engaged may be varied, as desired. The inner ball 2 of the arm is fitted at its end within a rounded recess within a clamping plate 3. It is held in position within this recess by an auxiliary plate 4, which has an opening therein shaped to fit about the ball on the inner side of the same adjacent the rod 1. The plates 3 and 4 are provided with openings to receive threaded bolts 5 at each end thereof. Said bolts extend through the plates and spacing nut 6 on the said bolts adjust the position of the plate 3 relative to the plate 4 so that the ball may move freely therein and be held in adjusted position by tightening the nuts 6 in an obvious manner.

The bolts 5 are extended beyond the clamping plate 3 and are extended through a plate 7, which is adapted to co-operate with the plate 3 to secure the bottle holder to some article of furniture. Both plates 3 and 7 are extended laterally beyond the end of the plate 4 at one end, as shown in Fig. 6, so as to better engage with some article of support. Thumb nuts 8 upon the ends of the bolts allow the spacing of the plates 3 and 7 so as to clamp against the article of support. A spacing nut 9 upon one of the bolts 5 tends to lock the plate 7 in any adjusted position relative to the plate 3. The manner in which the clamp is thus secured to a supporting article of furniture will be thus readily understood.

The opposite end of the arm 1 has a ball 11 fitting within the rounded opening in the plate 10. Said ball is held in position within said opening by a plate 12 fitting around the rod 1 and having an opening therein bearing against the inner face of the ball 11 and held in position by bolts 13 through said plates and having thumb nuts 14 thereon to adjust the friction upon the ball 11 so as to hold the plate 10 in adjusted position.

The plate 10, as shown in Fig. 4, has buttons 15 at each end thereof. Said buttons project outwardly from the rod and provide attachment for straps 16 upon the bottle.

To secure the bottle to the plate 10 of the supporting structure, I provide a sleeve 17 of fabric or other flexible material of the proper size and shape to surround the nursing bottle 18. This sleeve of fabric has openings 19 ad-

jacent either end on the upper side thereof. A strap 16 of flexible material is then inserted through the opening 19, said strap being split longitudinally, as shown at 20, to surround the end of the bottle, the strap being then brought around the lower side of the sleeve 17 and upwardly around the rear end of the bottle and through the other opening 19 and extended upwardly parallel with the adjacent end of the strap. The ends of the strap are formed with buttonholes adapted to engage with the buttons 15, as shown particularly in Fig. 2.

It will be understood that any number of buttonholes desired may be formed in the strap 16 to vary the distance between the supporting plate 10 and the bottle, as desired. When the arm 1 is secured to a stationary supporting means, such as the chair back 21, shown in Fig. 2, the arm may be extended into a position adjacent the child, who is to use the bottle, in approximately the manner shown in Fig. 1. The clamping nuts 6 may be set so as to hold the arm in adjusted position and the bottle may then be adjusted for use. This is done by securing the bottle strap 16 to the buttons on the plate 10, as shown, and moving the plate 10 relative to the ball 11 on the arm so as to bring the nursing bottle into proper position, the thumb nuts 14 may then be tightened to hold it in that position. It is obvious that the plate 10 may be turned laterally relative to the arm 1 or may be rotated on the end of the arm 1 so that the bottle may be tipped or adjusted in any manner desired.

In Figs. 1, 5 and 7, I have illustrated a slightly different embodiment of the device and in this case an arm 22 is used in place of the arm 1 on the other embodiment. The arm 22 may be understood as being a flexible arm of metal comprising adjacent rings of metal secured flexibly together, said arm being old in the art and well understood, being frequently used in connection with drop lights and similar structures. This arm is secured at its support engaging end to the plate 3'. This connection may be a rigid one so that the arm may extend directly outward away from said plate. Screws or bolts 23 extending through said plate 3' are extended through a clamping plate 24 and thumb nuts 25 on the ends of said bolts may be employed to adjust the plate 24 relative to the plate 3; and a locking nut 26 on one of said bolts may be employed to secure said plates in any desired spaced relation relative to each other. Smaller lock nuts 27 on the bolts are employed to lock the plate 3' against the head of said bolts, as shown particularly in Fig. 7. The manner in which this arm may thus be secured to any supporting article of furniture will be readily understood, particularly from Fig. 1.

The outer end of the arm 22 is rigidly at-

tached to a collar 27' extending centrally from the plate 28. Said plate 28 is shaped like the plate 10 and has buttons 15 at each end thereof to engage with the straps 16 of the bottle.

This device will operate in very much the same way as the modification previously described. The plate 28 at the end of the arm is adapted to be adjusted in various levels relative to the clamping plate 3' and the angle of the said plate relative to the arm may be varied, due to the flexible construction of the arm 22.

The advantages of the device will be apparent to those skilled in the art. The clamp at the supporting end of the arm is adapted to be easily and quickly secured to some article of support and the arm may be readily adjusted into any desired position and the bottle may be secured thereto and be ready for instant use. The bottle holding casing with the straps thereto particularly adapt the bottle to be held with the type of structure shown.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent is:

In a device of the character described, an open ended flexible bottle engaging sleeve having openings therein on one side adjacent its ends, a strap adapted to extend through said openings and longitudinally about a bottle, an adjustable support, and means to secure the ends of said strap to said support.

In testimony whereof I hereunto affix my signature this 3d day of February A. D. 1927.

GERALD R. LIVERGOOD.