C. F. MADDEN.

BOTTLE HOLDER.

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1,084,457.

Patented Jan. 13, 1914.

Fig. 1.

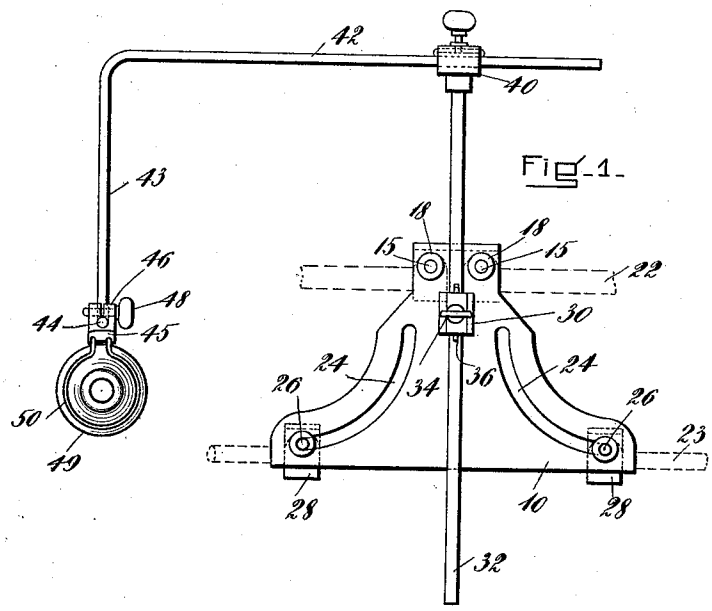


Fig. 2.

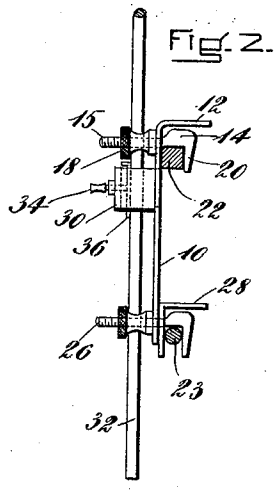


Fig. 3.

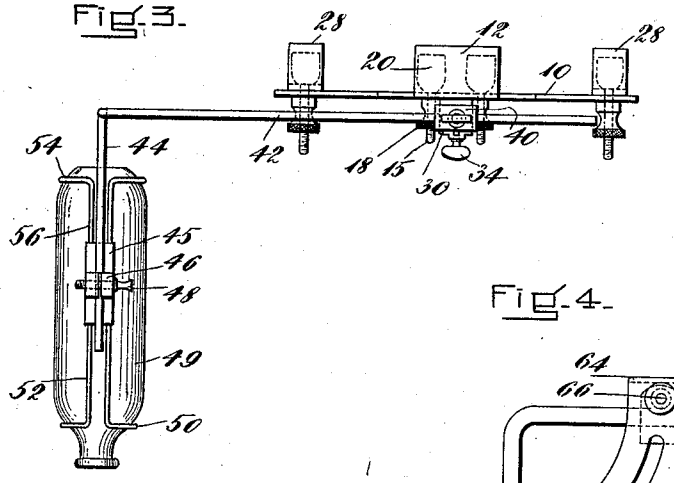
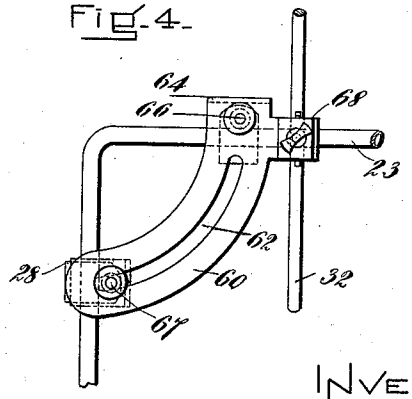


Fig. 4.



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BOTTLE-HOLDER.

1,084,457. Specification of Letters Patent. Patented Jan. 13, 1914.

Application filed January 22, 1912. Serial No. 672,609.

To all whom it may concern:

Be it known that I, CHARLES F. MADDEN, of Beachmont, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Bottle-Holders, of which the following is a specification.

This invention relates to an improvement in adjustable holders and more particularly to those adapted for holding nursing bottles.

One object of the invention is to provide an adjustable holder which can be conveniently secured to any suitable support and fitted with adjustments so that the bottle may be turned in any desired direction, and held in convenient accessible positions while in use, thus relieving the child of the necessity of holding the bottle, and the bottle is prevented from being dropped on the floor and broken.

A further object of the invention is to provide a simple and inexpensive structure which has advantages over those which have heretofore been devised.

I will now describe my invention in the following specification and point out the novel features thereof in the appended claims.

In the accompanying drawing Figure 1 is a front elevation of one embodiment of the invention complete; Fig. 2 is a fragmentary side elevation of the same; Fig. 3 is a plan view of the same; and Fig. 4 is a fragmentary front elevation showing a modified form of base plate.

As illustrated in Figs. 1, 2 and 3, the holder comprises a base plate 10, preferably of sheet metal and generally triangular in shape. The base plate is provided at its upper edge with a rearwardly projecting ledge 12, against which the shanks 14 of clamping screws 15 are adapted to bear. In this form of the device two clamping screws 15 are shown, each provided with knurled nuts 18 by which the laterally projecting wing or hook 20 can be tightly clamped against a suitable support 22, which may be a wooden rail on a chair or crib, or against a round rod 23, which may be a portion of a metal crib or bed. The ledge 12 acts as a backing for engagement by the heel of the shank 14 of the clamping screw, to facilitate the operation of attaching the base plate to a support by acting as a backing for the shank and preventing turning of the hook.

The plate 10 is provided with a pair of divergent slots, 24, preferably arcuate, through which clamping screws 26 are adapted to pass. The screws 26 also pass through angle clips 28, which have two legs at right angles to one another. One leg overlies the arcuate slot 24, and the other leg acts as a backing for the heel of the clamping screw 26. These angle clips prevent the screws 26 from tilting in the arcuate slots and thus maintain the hooked ends of the clamping screws in substantially parallel relation with the base plate. Thus the clamping screws are arranged to engage either a round or a flat surface, and are movable along the arcuate slots 24 to vary their positions with respect to the vertical members of a crib or other support.

The base plate 10 is provided near its upper end with a boss 30 in which a rod or stem 32 is adjustably mounted. This rod is held in adjusted position by a clamping screw 34, which in the present embodiment is arranged to engage a gib 36 located within the boss and in contact with the rod 32. This construction provides a long clamping surface to hold the rod firmly in place. If desired the boss 30 may be split and provided with ears through which the clamping screw passes.

The upper end of the rod 32 is provided with a boss 40, in which a wire arm 42 is adjustably mounted. The arm 42 is bent at right angles to form a downwardly extending portion 43, and is then bent at right angles in a plane substantially at right angles to the plane containing the portions 42 and 43, to form a laterally projecting arm 44 to which a bottle holder or retainer is attached. The bottle holder comprises a block 45 having a lug 46, which is adjustably secured to the arm 44 by a clamping screw 48. The bottle 49 is held in a skeleton retainer which is formed of a wire bent to form a loop 50 adapted to engage and surround the bottle at the junction of the neck with the body thereof, then formed into a pair of parallel strands 52, which have their ends affixed in the block 45. The bottom of the bottle is engaged by a pair of wires which are bent into partial circles 54 and then extend substantially parallel to each other and at right angles to the plane of the partial circles to form the portions 56 which have their ends received in grooves in the upper side of the block 45, and entered in holes in said block. The neck of

the bottle is entered in the loop 50 and then the bottle is pushed into the retainer so that the partial circles 54 engage the rounded corner of the bottom of the bottle and hold it firmly in place.

In the modified form shown in Fig. 4 the base plate 60 is generally arcuate in shape with a single arcuate slot 62, and a rearwardly deflected ledge or flange 64. A single clamping screw 66 is provided at the top, and a single clamping screw 67 movable in the slot 62. These screws are the same as those described above. A lug 68 is provided at the upper corner of the base plate for receiving the rod 32, the remainder of the device being the same as described in the foregoing. This form of the device has only two points of attachment and can be more readily manipulated in some instances.

Having thus described my invention, what I claim is:—

1. An adjustable holder, comprising a plate provided with an elongated slot, an angle-clip adapted to engage said plate, and a screw passing through said clip and slot having a hooked shank adapted to engage a support, said shank being arranged to engage one leg of said angle-clip to prevent the former from tilting.

2. An adjustable holder, comprising a base plate provided with a pair of slots and having an overhanging ledge, an angle clip overlying each slot, a clamping screw passing through each slot and having a hooked end adapted to engage said angle clip, a pair of clamping screws passing through said plate and having shanks arranged to engage said ledge, and a bottle holder adjustably mounted on said base plate.

3. A bottle holder, comprising a base plate having an elongated slot and an overhanging ledge, an angle clip overlying said slot, a clamping screw passing through said slot and one leg of said clip, said screw having a shank arranged to engage the other leg of the clip, a clamping screw arranged to cooperate with said ledge, and a bottle retainer adjustably mounted on said base plate.

4. An adjustable holder, comprising a plate having a pair of divergent elongated slots and an overhanging ledge, an adjustable angle-clip overlying each slot, a clamping screw passing through each clip and slot having a hook at one end adapted to engage a support, and means on said plate for adjustably supporting a rod.

In testimony whereof I have affixed my signature, in presence of two witnesses.

CHARLES F. MADDEN.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."