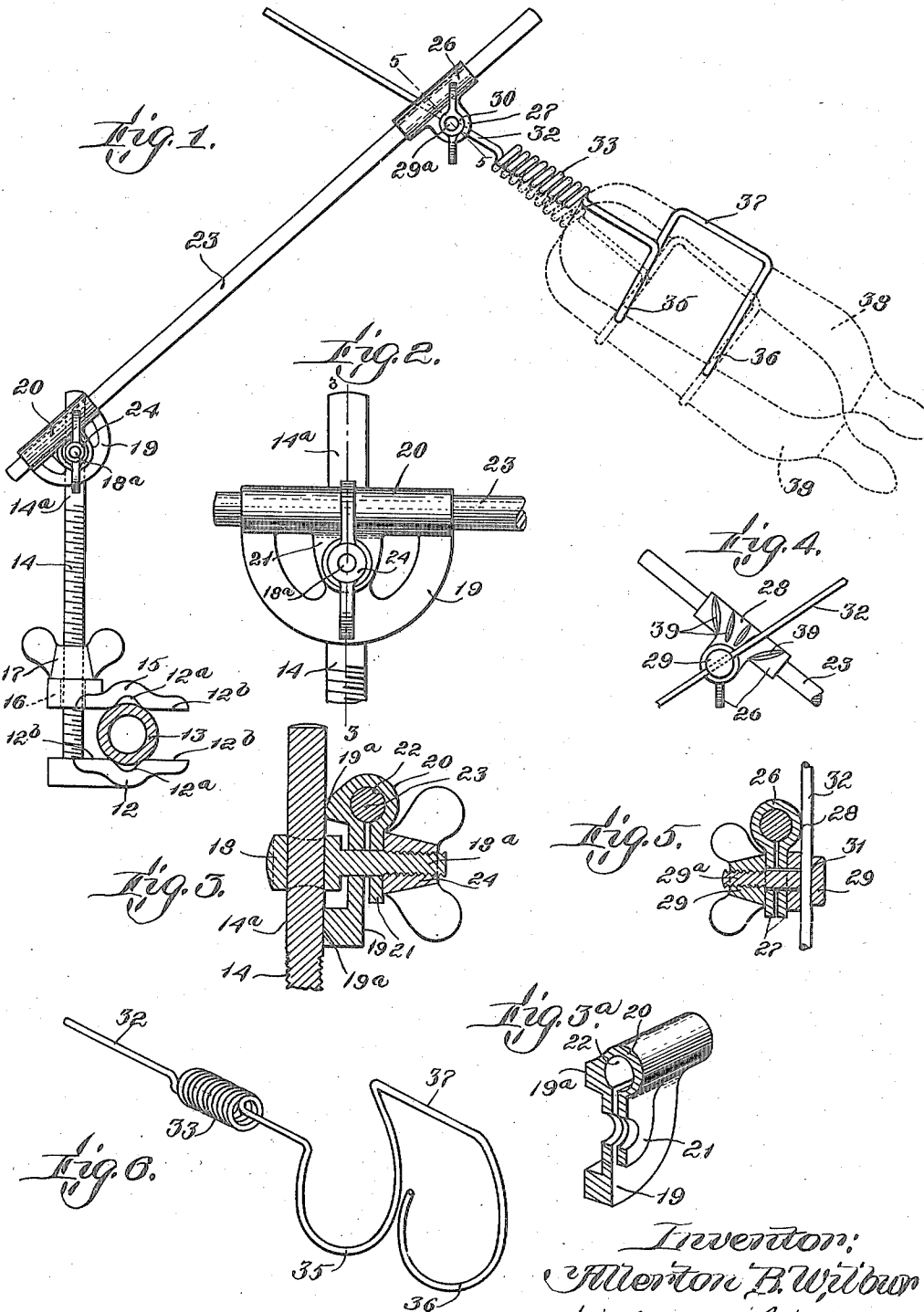


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NURSING BOTTLE HOLDER.
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1,284,010.

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UNITED STATES PATENT OFFICE.

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NURSING-BOTTLE HOLDER.

1,284,010.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALLERTON B. WILBUR, a citizen of the United States, residing at Bridgewater, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in Nursing-Bottle Holders, of which the following is a specification.

This invention is embodied in a nursing-bottle holder comprising a resilient bottle-holding arm adapted to confine a nursing-bottle and to be flexed downwardly by the weight of the bottle and its contents, and an adjustable support for said arm including a base clamp adapted to engage a supporting body, and an outer clamp adapted to engage said arm, said support having means for adjusting the outer clamp relatively to the base clamp, and for positively holding the outer clamp in any position to which it may be adjusted.

The object of the invention is to provide a holder which is adjustable on a supporting body such as a part of a crib, baby carriage, high chair, etc., and is adapted to resiliently support a nursing-bottle in various positions with relation to the supporting portion of said body, the resilient arm when flexed downwardly by the weight of the filled bottle maintaining the bottle nipple in position to be easily held by a baby's mouth while the baby is feeding, and to automatically remove the nipple from the vicinity of the mouth when the food has been absorbed and the bottle lightened so that the bottle does not irritate or inconvenience the baby.

Of the accompanying drawings forming a part of this specification,—

Figure 1 is a side elevation of a bottle-holder embodying the invention, and a sectional view of a supporting body, here shown as a cylindrical member of a crib.

Fig. 2 is an enlargement of a portion of Fig. 1, showing the standard and rod herein-after referred to, at right angles to each other, instead of the angle shown by Fig. 1.

Fig. 3 is a section on line 3—3 of Fig. 2.

Fig. 3^a is a perspective sectional view of the plate shown by Fig. 3.

Fig. 4 is a fragmentary side view looking from the side opposite that shown by Fig. 1.

Fig. 5 is a section on line 5—5 of Fig. 1.

Fig. 6 is a perspective view of the bottle-holding arm removed from the support.

The same reference characters indicate the same parts in all of the figures.

In the drawings, 12 represents a lower clamping-jaw adapted to bear on any suitable support 13 which may be of cylindrical or other form, the jaw 12 being preferably provided with a notch or recess 12^a and with flat faces 12^b at opposite sides of the recess.

14 represents a standard which is perpendicular to the jaw 12 and is rigidly attached thereto at its lower end. The lower portion of said standard is screw-threaded, while its upper portion, indicated by 14^a, is smooth, or devoid of a screw thread. 15 represents an upper jaw, the lower face of which is a counterpart of the upper face of the clamping-jaw 12, the hub of said jaw being provided with an enlarged orifice 16, shown by dotted lines in Fig. 1, through which the standard 14 passes loosely. 17 represents a clamping-nut engaged with the screw-thread of the standard 14 and bearing on the upper jaw. Said jaws, the screw-threaded portion of the standard 14, and the clamping-nut 17 constitute the base clamp.

18 represents the head and 18^a the threaded shank of a stud, said head being apertured to receive and turn on the smooth portion 14^a of the standard. 19 represents a plate which is perforated to receive and turn loosely on the shank 18^a and is provided with an offset clamping face 19^a in sliding contact with the smooth portion 14^a of the standard. The plate 19 is provided as best shown by Fig. 3, with a compressible sleeve 20 having an ear 21 which is also perforated to receive and turn on the shank 18^a. Said sleeve and ear are preferably formed integral with the plate, and bent as indicated by Fig. 3, to form a substantially cylindrical socket wall 22.

23 represents a rod passing through the socket 22 and frictionally engaged with said sleeve, the rod being adapted to turn in the sleeve and confined therein by friction by means of a clamping-nut 24, engaged with the shank 18^a and bearing on the ear 21.

It will be seen that the operation of screwing home the clamping-nut simultaneously compresses the sleeve 20 and presses the clamping face 19^a against the smooth portion of the standard 14, the arm 23 being therefore firmly secured to the standard 14 in any angular position desired. The smooth stand-

ard portion 14^a, the stud 18, the plate 19, the sleeve 20, and the clamping-nut 24 constitute a universal joint which, when the clamping-nut is loosened, permits angular adjustments of the rod 23 in all directions, and when said nut is tightened, confines the rod 23 in any position to which it has been adjusted.

26 represents a split sleeve which embraces and is movable on the rod 23, said sleeve being provided with apertured ears 27 (Fig. 5), and with a clamping face 28 formed by one side of the sleeve.

29 represents the head, and 29^a the screw-threaded shank of a stud, the shank passing through the ears 27, and being provided with a clamping-nut 30 which, when tightened, compresses the sleeve 26 on the rod 23. The head 29 is provided with a transverse orifice 31 through which passes the shank portion 32 of the bottle-holding arm herein-after described. The operation of tightening the nut 30 simultaneously compresses the sleeve 26 and presses the shank portion 32 against the clamping face 28, thus securing the bottle-holding arm firmly to the rod 23. The sleeve 26, the stud 29, and the clamping-nut 30 constitute an outer clamp.

The bottle-holding arm is preferably made of a single length of resilient wire which includes the shank portion 32, a helically coiled portion 33, and a cradle portion formed by bending the wire to provide two loops 35 and 36, and a neck 37 connecting said loops. The loops 35 and 36 are formed to surround more than half of the periphery of a nursing-bottle 38, and to normally contract on said periphery and thus confine the bottle with sufficient security, the bottom of the bottle resting on one end of the coiled spring 33. When the bottle is charged with food its weight deflects the resilient arm downwardly, as indicated by dotted lines in Fig. 1. The adjustable support above described, enables the bottle engaged with the bottle-holding arm to be adjusted with its nipple in any position that may be desirable relatively to the supporting body 13. In practice, the adjustment should be such that the nipple of the filled bottle may be conveniently held by a baby's mouth, the weight of the bottle and its contents holding the nipple in position for convenient use. When the food has been absorbed and the baby releases the nipple, the resilient arm automatically raises the bottle so that the nipple is removed from annoying proximity to the baby's mouth.

The clamping face 28 of the sleeve 26 is preferably provided with radial notches 39 (Fig. 4), each of which is adapted to receive one side of the shank portion 32 and cause an interlocking engagement with the sleeve and the shank portion.

The details of construction of the base

clamp, the universal joint, the outer clamp, and the resilient bottle-holding member may be variously modified without departing from the spirit of the invention as pointed out by the appended claims.

I claim:

1. A nursing-bottle holder comprising a resilient bottle-holding arm adapted to confine a nursing-bottle and to be flexed downwardly by the weight of the bottle and its contents, and an adjustable support for said arm including a base clamp adapted to engage a supporting body, a standard fixed to a member of the base clamp, a rod, a universal joint connection between said standard and rod having means for securing said rod in various positions relatively to the standard, and an outer clamp adapted to engage said rod and resilient arm and adjustable on the rod, said outer clamp having means for positively engaging the rod, whereby the outer clamp may be secured in any position to which it may be adjusted.

2. A nursing-bottle holder comprising a bottle-holding arm composed of a length of resilient wire having a shank portion, a coiled portion, and a bottle-confining cradle portion adapted by said coiled portion to be flexed downwardly by the weight of the bottle and its contents, and an adjustable support for said arm including a base clamp adapted to engage a supporting body, a standard fixed to a member of the base clamp, a rod, a universal joint connection between said standard and rod having means for securing said rod in various positions relatively to the standard, and an outer clamp adapted to engage and permit longitudinal adjustment of the shank portion of said resilient arm and adjustable on said rod, said outer clamp having means for positively engaging the rod and shank, whereby the outer clamp may be secured in any position to which it may be adjusted.

3. A nursing-bottle holder comprising a resilient bottle-holding arm adapted to confine a nursing bottle and to be flexed downwardly by the weight of the bottle and its contents, and an adjustable support for said arm including a lower clamping-jaw, a standard fixed to said jaw, said standard being screw-threaded at its lower portion and smooth at its upper portion, an upper clamping-jaw loosely engaged with said standard, a clamping nut engaged with the thread of said standard and bearing on the upper jaw, said jaws, threaded standard portion, and nut constituting a base clamp adapted to engage a supporting body, a universal joint one member of which is a portion of said standard, said joint including a compressible sleeve adapted to turn on said standard, and means for securing said sleeve to said standard in various angular positions, a rod frictionally engaged with said sleeve

and connected with the standard by said joint, and an outer clamp carried by said rod and adapted to engage said bottle-holding arm.

5 4. A nursing-bottle holder comprising a resilient bottle-holding arm adapted to confine a nursing bottle and to be flexed downwardly by the weight of the bottle and its contents, and an adjustable support for said
10 arm including a lower clamping-jaw, a standard fixed to said jaw, said standard being screw-threaded at its lower portion and smooth at its upper portion, an upper
15 clamping-jaw loosely engaged with said standard, a clamping nut engaged with the thread of said standard and bearing on the upper jaw, said jaws, threaded standard
20 portion, and nut constituting a base clamp adapted to engage a supporting body, a universal joint one member of which is a portion of said standard, said joint including a compressible sleeve adapted to turn on said
25 standard, and means for securing said sleeve to said standard in various angular positions, a rod frictionally engaged with said sleeve and connected with the standard by said joint, a split sleeve movable on said rod
30 and provided with apertured ears and with a clamping face formed by one side of the sleeve, a stud including a screw-threaded shank inserted in said ears, and an apertured head receiving said bottle-holding arm,
35 and a clamping-nut engaged with said shank and adapted to simultaneously compress said sleeve and press said arm against said clamping face, said sleeve, stud, and clamping-nut constituting an outer clamp adapted to engage said arm.

5 5. A nursing-bottle holder comprising a
40 resilient bottle-holding arm adapted to confine a nursing bottle and to be flexed downwardly by the weight of the bottle and its contents, and an adjustable support for said arm, including a lower clamping-jaw, a
45 standard fixed to said jaw, said standard being screw-threaded at its lower portion and smooth at its upper portion, an upper clamping-jaw loosely engaged with said standard, a clamping-nut engaged with the
50 thread of said standard and bearing on the upper jaw, said jaws, threaded standard portion, and nut constituting a base clamp adapted to engage a supporting body, a stud including a screw-threaded shank, and an
55 apertured head receiving and adapted to turn on the smooth portion of the standard,

a plate perforated to receive and turn on said shank and having a clamping face in sliding contact with the smooth portion of the standard, and a compressible sleeve having
60 an ear also perforated to receive and turn on said shank, a clamping-nut engaged with said shank and adapted to simultaneously compress said sleeve and press said clamping face against the smooth portion
65 of the standard, said standard portion, stud, plate, sleeve and clamping-nut constituting a universal joint, a rod frictionally engaged with said sleeve, and connected with the standard by said joint, and an outer clamp
70 carried by said rod and adapted to engage said bottle-holding arm.

6. A nursing-bottle holder comprising a resilient bottle-holding arm adapted to confine a nursing bottle and to be flexed downwardly by the weight of the bottle and its contents, and an adjustable support for said
75 arm including a lower clamping-jaw, a standard fixed to said jaw, said standard being screw-threaded at its lower portion and smooth at its upper portion, an upper
80 clamping-jaw loosely engaged with said standard, a clamping-nut engaged with the thread of said standard and bearing on the upper jaw, said jaws, threaded standard
85 portion, and nut constituting a base clamp adapted to engage a supporting body, a universal joint one member of which is a portion of said standard, said joint including a compressible sleeve adapted to turn on
90 said standard, and means for securing said sleeve to said standard in various angular positions, a rod frictionally engaged with said sleeve and connected with the standard by said joint, a split sleeve movable on said
95 rod and provided with apertured ears and with a clamping face formed by one side of the sleeve, a stud including a screw-threaded shank inserted in said ears, and an apertured head receiving said bottle-holding
100 arm, and a clamping-nut engaged with said shank and adapted to simultaneously compress said sleeve and press said arm against said clamping face, said sleeve, stud, and
105 clamping-nut constituting an outer clamp adapted to engage said arm, said clamping face being provided with arm-engaging notches radiating from the axis of said stud.

In testimony whereof I have affixed my signature.

ALLERTON B. WILBUR.