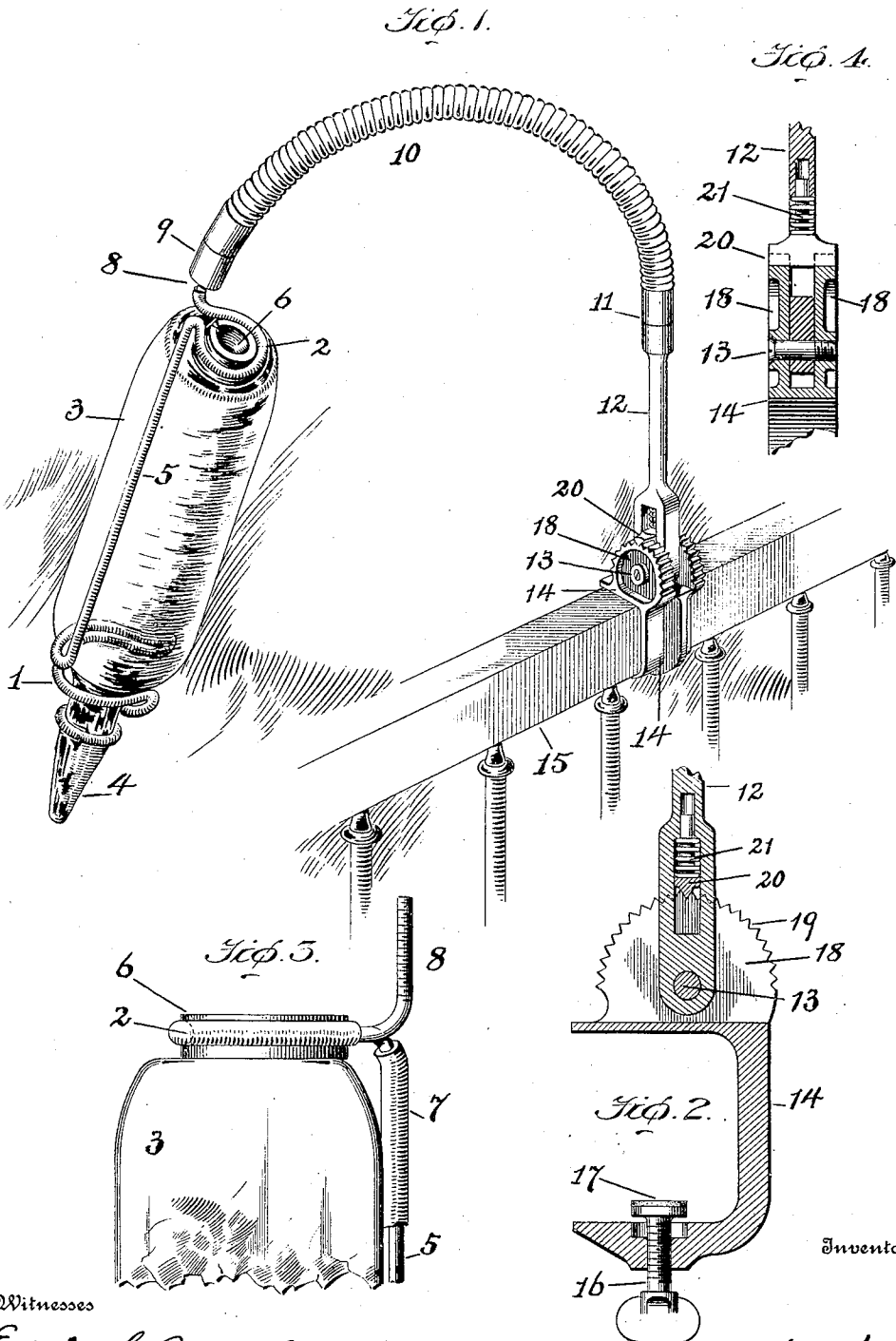


R. W. HOUSTON.
BOTTLE HOLDER.
APPLICATION FILED AUG. 17, 1908.

932,128.

Patented Aug. 24, 1909.



Witnesses

Edwin L. Bradford,
J. Ferdinand Vogt.

By

Richard W. Houston
Mann & Co.

Attorneys

UNITED STATES PATENT OFFICE.

RICHARD W. HOUSTON, OF BALTIMORE, MARYLAND.

BOTTLE-HOLDER.

932,128.

Specification of Letters Patent.

Patented Aug. 24, 1909.

Application filed August 17, 1908. Serial No. 448,820.

To all whom it may concern:

Be it known that I, RICHARD W. HOUSTON, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Bottle-Holders, of which the following is a specification.

This invention relates to an improved bottle-holder.

The object of the invention is to provide a holder for bottles that contain liquid food so that the same may be administered to infants, invalids and others who are unable to help themselves, especially when in a recumbent position.

The invention is illustrated in the accompanying drawing in which,—

Figure 1 is a perspective view of the improved bottle-holder as seen when attached to the head of a child's bed. Fig. 2 is a detail view in section on a larger scale, of the clamp by which the holder may be attached to the cross-rail of a bedstead. Fig. 3 is a view showing broken parts of the bottle and holder. Fig. 4 is a section view showing the construction of pivoted automatic adjuster which is attached to the clamp.

My bottle-holder comprises a device to clip onto the bottle, a short length of non-resilient flexible-arm, a pivoted shank which carries the flexible-arm and has means for automatically securing it in whatever position it may be set, and a clamp by which these last-named devices may be attached to the rail of a bedstead or other structure.

The bottle-holder proper consists of a wire having resilient qualities and suitably shaped to form two clip or grip parts, 1, 2, adapted to take hold of a bottle, 3. One clip part comprises a hook, 1, adapted to take about the neck of the bottle, which in the drawing is shown with its neck pointing downward. In this instance a rubber nipple, 4, is shown on the neck of the bottle. The other clip part may be in the form of a resilient loop, 2, adapted to press the bottom of the bottle; the said two clip parts, 1, and, 2; are connected by a straight bar, 5, which extends parallel with respect to the length of the bottle. The clip part, 2, that is in the form of a loop may have a circular knob or disk, 6, as shown which will contact directly with the bottom of the bottle. The two clips will yield to permit the bottle, 3, to be pressed into position between them and the bottle will then be properly held. If desired the

spring-wire that forms the bottle-clips may be covered by a sleeve or tube, 7, of rubber.

The clip loop, 2, has its end, 8, screw-threaded to better attach it to one end, 9, of the non-resilient flexible arm, 10. This flexible arm is a well-known construction used for other purposes, which will yield or bend when strain is applied to it, but being non-resilient will ordinarily retain its curved form or position when it has been set. The other end, 11, of the flexible arm has a stiff rod or shank-arm, 12, which is pivoted or jointed at, 13, to a clamp, 14, which may be secured to any structure, such as the rail, 15, of a bedstead. The clamp, 14, is shown in Figs. 1 and 2; one side of the clamp is open to admit of its being slipped on to the rail, 15, and one side has a thumb screw, 16, whose end carries a pad, 17, so that when the pad is forced against the wood rail, 15, the latter will not be injured. The rod or shank-arm, 12, being pivoted on a bolt or pin, 13, projects upward and will have a swinging or hinged movement.

Means are employed to act automatically and secure the pivoted shank-arm, 12, in any position to which it may be set. This means may comprise a ratchet-segment, 18, which is fixed on the clamp device, 14. The teeth, 19, of this segment form a curve that is concentric with respect to the pivot-bolt or pin, 13, on which the shank-arm, 12, turns. It is obvious that either one or two segments, 18, may be used. In the present instance two are shown, and the end of the shank-arm is between the two. The shank-arm carries a pawl, 20, that is normally pressed by a spring, 21, so as to keep the pawl engaged with the teeth of the segments.

It will be seen that the construction is such that when a little force is applied to the shank-arm the pawl will yield, and the shank-arm will turn on its pivot, 13, and that when the shank-arm has been set to the approximate position desired the pawl and teeth will retain it. The non-resilient flexible arm and the bottle holder carried thereby may then be bent to the precise point desired without further adjustment of the shank-arm and as the flexible arm is non-resilient and will not spring back, it will retain the bottle-holder at the desired point.

*Having thus described my invention what I claim and desire to secure by Letters Patent is,—

1. A bottle-holding device comprising a

screw clamp having a ratchet segment,—a
stiff arm pivoted to the clamp and having a
pawl to engage the ratchet segment; a bot-
tle holder comprising a single piece of wire
5 having a clip formed at one end and at its
other end having a support for the bottom of
the bottle and a non-resilient flexible arm
having one end connected to the wire bottle
holder and its other end connected to the
10 stiff pivoted arm.

2. A bottle holding device comprising a
screw clamp having spaced-apart ratchet
segments; an arm pivoted to the clamp be-

tween said ratchet segments; a pawl carried
by said arm; a non-resilient flexible arm 15
having one end connected to the pivoted
arm, a wire bottle holder engaging and car-
ried by the flexible arm,—said bottle holder
having a loop at one end to engage the bot-
tom of a bottle and a clip at the other end. 20

In testimony whereof I affix my signature
in presence of two witnesses.

RICHARD W. HOUSTON.

Witnesses:

G. FERDINAND VOGT,
CHARLES B. MANN, Jr.