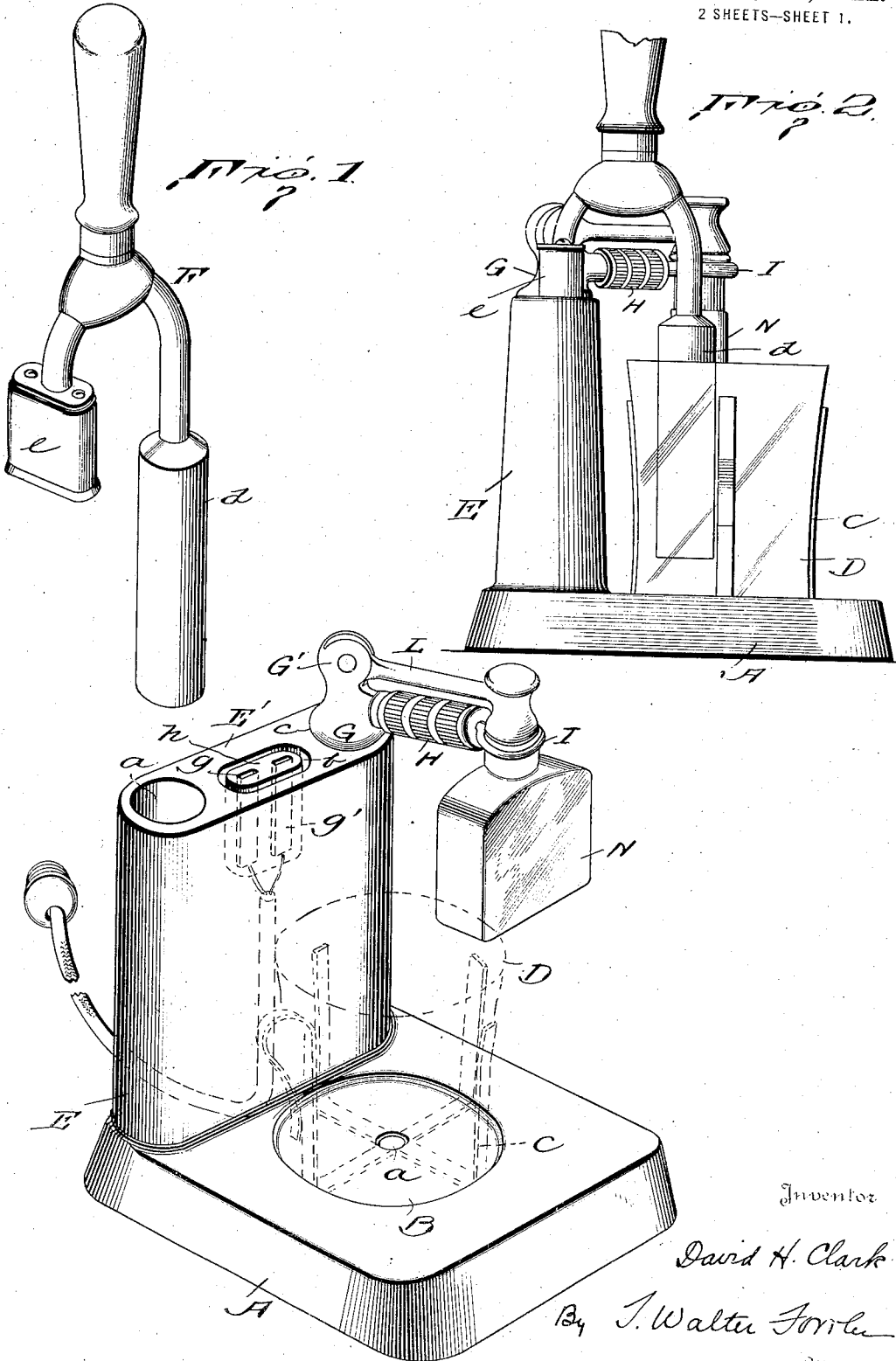


D. H. CLARK.
DISPENSING APPARATUS.
APPLICATION FILED JULY 2, 1921.

1,425,837.

Patented Aug. 15, 1922.

2 SHEETS—SHEET 1.



Inventor

David H. Clark

By J. Walter Forster

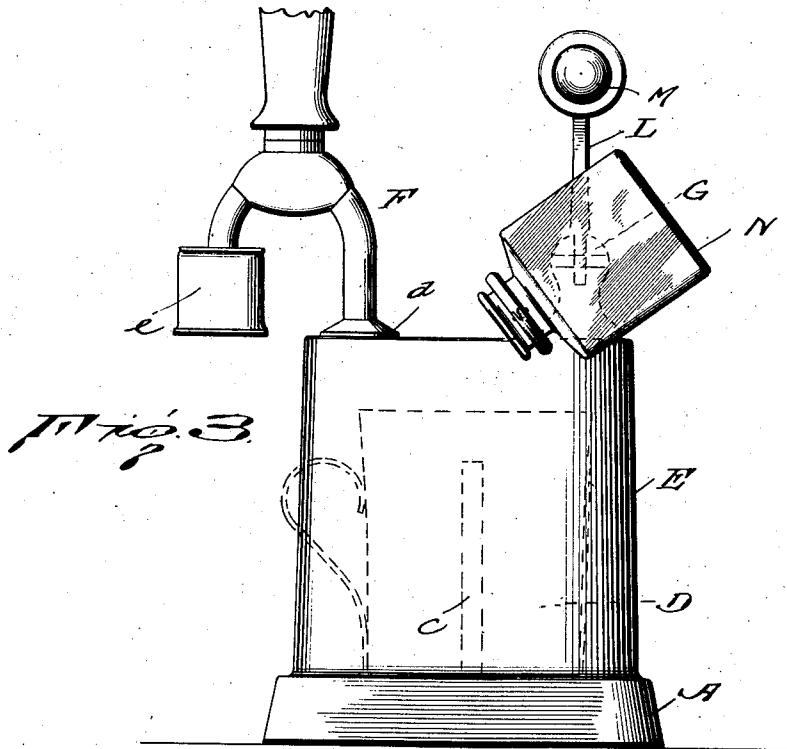
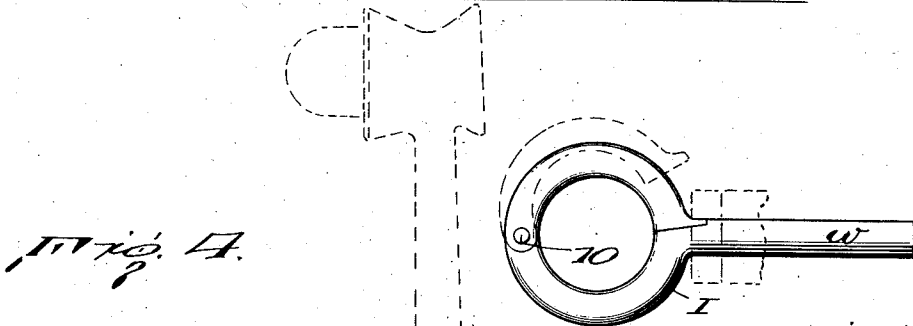
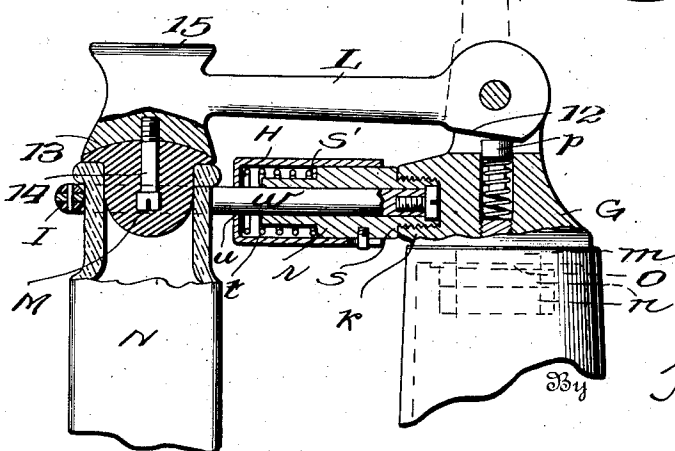
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DISPENSING APPARATUS.

1,425,837.

Specification of Letters Patent. Patented Aug. 15, 1922.

Application filed July 2, 1921. Serial No. 482,119.

To all whom it may concern:

Be it known that I, DAVID H. CLARK, a citizen of the United States, residing at Oran-
geburg, in the county of Rockland and
5 State of New York, have invented certain new and useful Improvements in Dispensing Apparatus, of which the following is a specification.

My invention relates to certain new and
10 useful improvements in dispensing apparatus. Specifically my invention is designed as an attractive and useful means to be displayed on the counters, or other positions in drug-stores, and like places, for dispensing
15 pharmaceutical preparations and delivering the same to customers in liquid form and in a more or less heated condition. To this end my invention comprises a suitable stand having a horizontal portion or base and an
20 upright portion projecting upwardly therefrom, said base adapted to support a drinking vessel and said upright adapted to support an electric heater and an electrical circuit maker or connector and also a tilting
25 bottle or container for the medicine or material to be dispensed.

A leading object of the invention is to provide a more or less unique, and useful apparatus of simple and attractive form for dispensing medicine or other preparations and
30 wherein a bottle or container of the medicine is suspended adjacent a drinking vessel or glass and is capable of being tilted to deliver a certain quantity of the medicine directly thereinto and without other handling
35 whereby all danger of contamination through contact with the hands is avoided. In addition to the foregoing, my object is to supply the apparatus with an electric immersion-heater which may be used to heat the
40 water or liquid contents which the glass contains and in which the charge or dose of medicine is to be dissolved.

With the above and other objects in view
45 my invention consists of the parts and the constructions, arrangements and combinations of parts which I will hereinafter describe and point out in the appended claims.

In the accompanying drawings forming
50 part of this specification and in which similar reference characters indicate like parts in the several views:

Fig. 1 is a perspective view of a dispensing apparatus embodying my invention;

55 Fig. 2 is a side elevation of the same;

Fig. 3 is a front elevation showing certain of the parts in a different position;

Fig. 4 is a view, partly in section, of the bottle holding means; and

Fig. 5 is a fragmentary plan view of the
60 bottle engaging ring.

In carrying out my invention I construct a stand of metal or any other desired material and give it such design and dimensions as may be found necessary or preferable. The stand is formed with a horizontal
65 base portion A in the top surface of which is an annular depression B adapted as a seat for a glass holder C and glass D, the said depressed seat having, if desired, a draining
70 opening, *a*, for the escape of any surplus liquid which may find its way onto said seat. Rising from the rear portion of the base A, is an upright E of somewhat shallow depth
75 but, say of a width about equal to that of the base, said upright and base being of some simple and attractive form and being finished in a suitable manner and said upright being capable of receiving on its surface display and advertising matter, not
80 shown, bearing directly upon the material to be dispensed. This, however, forms no part of the invention, since the apparatus is capable of more or less wide range of use,
85 and while designed for the especial purpose of dispensing pharmaceutical preparations in public places, it is not limited in its use thereto.

The upright member E of the stand is hollow and has a closed or covered top E'
90 which, however, is provided with the openings *a*, *b*, *c*, the opening *a* and *c* being shown as circular, and the opening *b* as of oblong form, but manifestly the design of said openings may be varied at pleasure, and be
95 made to correspond to the parts they are designed to receive.

The opening *a* in the top of the upright portion of the stand is adapted to admit and properly support one of the arms *d* of a
100 forked member F, the other arm *e* of said member being supplied with contact members or circuit makers of the usual type which are designed to make electrical contact with a conductor of electric energy.
105 Other contact members are provided in the form of a plug *h*, of insulating material, having suitable openings *g* therein for the reception of the contacts of the member *e*. The plug *h* is located in the oblong opening
110

b and has its lower end projecting into the hollow of the upright member of the stand, and being sustained therein in any desired manner, said block carrying within it suitable plates or contacts, *g'*, of any desired well known type, which form the terminals of the electric conductor and through the medium of which plates an electric circuit is established when the contacts of the member *e* are inserted as I will hereinafter describe.

The third opening *c* in the top of the upright portion of the stand is for the reception of attachments for suspending a rotatable and tilting bottle holder. These attachments include a post *G* fitted to rotate in the opening *c*, said post having a bifurcated spherical or other head, *G'* and an internally-threaded nipple *k* which extends at right-angles to the axis of the post. The post is formed or secured to a threaded nipple *m* on which are mounted one or more nuts and washers *n, o*, which serve to retain the post in position. While a specific form of mounting is thus described, it will be understood that other arrangements may be substituted therefore at pleasure, it only being necessary that suitable means be employed for rotatably securing the post in such manner that it will perform its intended function of being horizontally turnable so that the bottle or container which is suspended from the horizontal arm of the post, as I will hereinafter describe, may be moved in a horizontal plane towards and from the receiving glass when the latter is in place on the stand.

The internally-threaded nipple *k* is designed for the attachment of one end of a tubular member *r* which is enlarged between its ends to form shoulders *s s'*, one of which *s* abuts the end of the nipple *k* while the other, *s'* forms an abutment or seat for one end of a coiled spring *t*.

Slidably mounted on the tubular member *r* is a sleeve *H*, which is closed at one end except for a central hole *u* for the reception of the shank or rod *w* of a divided ring *I*, the two parts of this ring being pivotally connected at 10 and the line of division being extended to one side of the circumference of the ring so that it will enter the hole *u* or other pierced end of the slidable sleeve *H*, and thus be held against accidental opening of the divided parts of the ring. In fact the point of division of the ring is more or less located within the outer end of the sleeve *H* and can only be exposed and the parts opened after sliding the spring-actuated sleeve *H* inwardly on the tubular member *r* beyond the point of division of said ring. To facilitate this action the exterior of the sleeve may be milled or otherwise roughened to afford a finger-hold.

The inner end of the shank or stem of the ring passes through the tubular member *r*

and said shank may be secured in any well known manner to prevent endwise movement while permitting of rotation in a vertical plane to enable the bottle or container *N* which is suspended from the ring and whose neck is embraced thereby, to be tilted to discharge its contents into the adjacent drinking glass.

In addition to the foregoing features and in order to seal the bottle and to maintain its contents in a fresh and sanitary condition, I pivotally mount within the bifurcation of the post *G*, an arm *L*, the circular or disc-shaped head of which has a flattened portion, 12, against which the upper end of the spring-pressed plunger or rod *p* in the post bears, for the purpose of holding the free end of the arm to its proper seating on the bottle, said free end of said arm having a recess 13, in which is mounted a bottle stopper *M*, adapted to the mouth of the bottle *N*, the stopper being connected to the arm by means of a screw 14. A finger portion 15 is provided to facilitate the raising of the arm and withdrawal of the stopper.

My heretofore described apparatus is primarily designed for dispensing medicinal tablets but powdered or other form of material may be used. The tablets or material are contained in the bottle *N* and are intended to be taken in hot water at soda fountains, counters, or in other locations in public places and to this end and as conducing to the best sanitary conditions, the bottle is tiltably suspended adjacent the open end of the usual drinking glass *D*, and the electric heating appliance is so positioned on the stand, that electric connection may readily be made between the contact making plates *g'* and the contacts of the member *e* of the heater. The long arm *d* of the forked member *F* constitutes the heater proper and is designed to be placed in the liquid contents of the drinking glass and when the proper temperature of the liquid has been reached, the required dose or desired amount of medicine is delivered directly into the glass, the stopper-carrying arm having been thrown back to clear it of the bottle, as will be understood.

The bottle is freely swiveled and hence will return to a normal upright position when the desired dose has been discharged into the glass, after which the stopper-carrying arm may be lowered and the stopper thereof fitted into the mouth of the bottle.

When not in use, the forked member *F* is removed from its electrical contact with the plates *g'* and the long arm *d* of the member inserted in the circular opening *a* of the upright portion of the stand, in which position it is ready for instant connection and use.

The apparatus is of a somewhat unique nature and it is of attractive design and per-

forms all the functions of a dispensing apparatus requiring hot water for dissolving medicinal tablets or other pharmaceutical preparations.

5 I do not claim herein the specific form of electric heater, as the same constitutes the subject matter of a separate application filed of even date herewith.

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

1. A dispensing apparatus, comprising a stand, a movable arm carried by said stand; and means on said arm for supporting a container for the material to be dispensed.

2. A dispensing apparatus, comprising a stand, a support horizontally turnable therein, a vertically tiltable holder mounted on said support adapted to suspend a container for the material to be dispensed, and a shiftable closure for said container.

3. A dispensing apparatus having a stand provided with a horizontal, vertically journaled arm; and a holder journaled in the arm and capable of being tilted about a horizontal axis; said holder adapted to suspend therefrom a container for the material to be dispensed.

4. A dispensing apparatus having a stand provided with a horizontal, vertically journaled arm; a holder journaled in the arm and capable of being tilted about a horizontal axis; said holder adapted to suspend therefrom a container for the material to be dispensed; electrical contacts on the stand and a conductor connecting therewith; and an electric immersion heater interchangeably mounted on said stand.

5. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having a horizontally turnable arm provided with a vertically tiltable member adapted to support a container of the material to be dispensed adjacent said vessel so as to deliver its contents directly thereinto.

6. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having a horizontally turnable arm provided with a vertically tiltable member adapted to support a container of the material to be dispensed adjacent said vessel so as to deliver its contents directly thereinto, electrical contacts on the stand and a conductor leading thereto, and an electric heater having a portion for immersion in the drinking vessel.

7. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having a horizontally turnable arm provided with a vertically tiltable member adapted to support a container of the material to be dispensed adjacent said vessel so as to deliver its contents directly thereinto, electrical contacts on the stand, conductors connecting therewith, and an electric heater

having a circuit maker to engage said contacts and having an arm adapted for immersion in said drinking vessel.

8. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having a horizontally turnable arm provided with a vertically tiltable member adapted to support a container of the material to be dispensed adjacent said vessel so as to deliver its contents directly thereinto, and a movable arm having a closure for the mouth of said container.

9. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having an upright portion provided with openings and electric contacts, a post mounted in one of said openings and turnable about a vertical axis, an arm extending horizontally from said post, a bottle holder tiltable mounted on said arm adapted to suspend a bottle adjacent the drinking vessel so that its contents may be delivered directly thereinto, and a pivoted arm having a stopper for removably closing the mouth of the bottle.

10. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having an upright portion provided with openings and electric contacts, a post mounted in one of said openings and turnable about a vertical axis, an arm extending horizontally from said post, a bottle holder tiltable mounted on said arm adapted to suspend a bottle adjacent the drinking vessel so that its contents may be delivered directly thereinto, and a pivoted arm having a stopper for removably closing the mouth of the bottle, said holder comprising a divided ring to encircle the neck of the bottle and said arm having a slidable sleeve for holding the divided portions of the holder in closed condition.

11. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having an upright portion provided with openings and electric contacts, a post mounted in one of said openings and turnable about a vertical axis, an arm extending horizontally from said post, a bottle holder tiltable mounted on said arm adapted to suspend a bottle adjacent the drinking vessel so that its contents may be delivered directly thereinto, a pivoted arm having a stopper for removably closing the mouth of the bottle, and an electric heater having one portion adapted to said contacts and having another portion for immersion in the drinking vessel.

12. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having an upright portion provided with openings and electric contacts, a post mounted in one of said openings and turnable about a vertical axis, an arm extending horizontally from said post, a

bottle holder tiltably mounted on said arm adapted to suspend a bottle adjacent the drinking vessel so that its contents may be delivered directly thereinto.

- 5 13. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having a vertical portion at the rear provided with electrical contacts and a horizontally swinging member having a tilt-
10 able bottle support adapted to be moved relatively to said vessel.

14. A dispensing apparatus having a stand adapted to support a drinking vessel, said stand having a vertical portion at the
15 rear provided with electrical contacts and a horizontally swinging member having a tilt-able bottle support adapted to be moved relatively to said vessel, said bottle support having releasable bottle neck connections,
20 and an arm pivoted at one end and having a stopper at the free end adapted to the mouth of said bottle.

15. A dispensing apparatus having a stand adapted to support a drinking vessel,
25 said stand having an upright portion; a horizontal support turnable about a vertical axis on said upright portion, said support having a bottle-supporting split ring adapted to be tilted about a horizontal axis;
30 and a pivoted arm associated with the support and having a stopper adapted to the open end of the bottle.

16. A dispensing apparatus comprising a supporting member; means carried by said
35 supporting member to hold a container for the material to be dispensed, said means comprising a split ring to surround the container, and a slidable sleeve adapted to normally engage and retain in abutment the
40 ends of said ring.

17. A support for a container for material to be dispensed, comprising a main support-

ing member; an arm carried by said supporting member; a split ring carried by said arm; and a slidable sleeve mounted on the
45 arm and normally engaging and retaining in abutment the ends of said ring.

18. A dispensing apparatus comprising a supporting member, an arm carried by said supporting member; a split ring having a
50 shank carried by the said arm; and a sleeve mounted on the arm and movable to engage one end of said divided ring and retain said end in proximity the opposite end of said
ring. 55

19. A dispensing apparatus comprising a supporting member, an arm carried by said supporting member; a split ring having a shank entering and carried by said arm; a
60 movable sleeve surrounding the arm and the shank of the ring; and a spring bearing against said sleeve to normally hold the same so that a portion of the sleeve will engage the split ends of said ring and hold said ends
together. 65

20. A dispensing apparatus comprising a supporting stand; an arm carried by said stand at right-angles thereto; a split ring having a shank carried by said arm, said
70 ring having a portion pivoted to another portion of the ring, the free end of said pivoted portion abutting the fixed portion at approximately the outer end of the said shank; a sleeve slidably mounted upon the
said arm and surrounding the shank of the
75 ring, said sleeve having a portion normally engaging the free end of the pivoted portion of the ring to hold the same in engagement with the fixed portion; and a spring internally of said sleeve. 80

In testimony whereof I hereunto affix my signature.

DAVID H. CLARK.