

(No Model.)

F. E. BUTTS.
MEASURING FUNNEL.

No. 474,575.

Patented May 10, 1892.

FIG. 1.

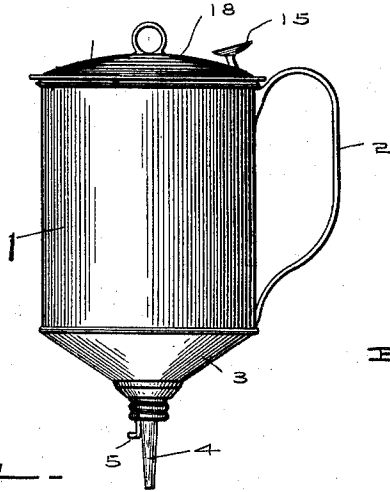


FIG. 3.

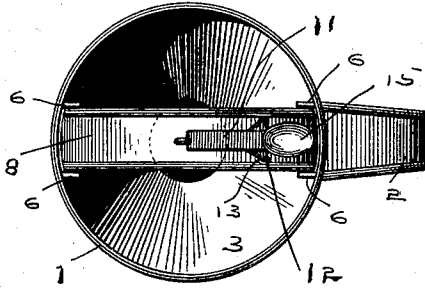


FIG. 4.

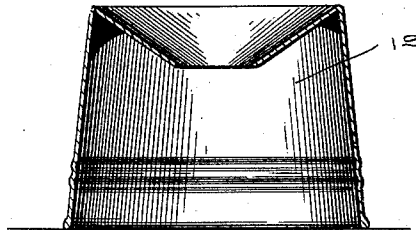
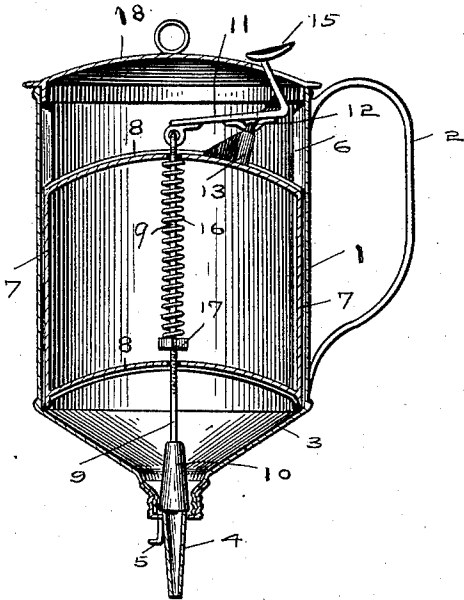


FIG. 2.



Witnesses

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Inventor

Frank E. Butts,
By his Attorney
C. C. Jacobs.

UNITED STATES PATENT OFFICE.

FRANK E. BUTTS, OF WINCHESTER, INDIANA, ASSIGNOR OF ONE-HALF TO
ISAIAH P. WATTS, OF SAME PLACE.

MEASURING-FUNNEL.

SPECIFICATION forming part of Letters Patent No. 474,575, dated May 10, 1892.

Application filed January 22, 1892. Serial No. 418,878. (No model.)

To all whom it may concern:

Be it known that I, FRANK E. BUTTS, of Winchester, county of Randolph, and State of Indiana, have invented certain new and useful Improvements in Bottle-Fillers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

My invention relates to improvements in the construction of devices for filling bottles and other similar vessels, and will be understood from the following description.

In the drawings, Figure 1 is an elevation of my device. Fig. 2 is a central longitudinal section through the same. Fig. 3 is a top view with the cover removed, and Fig. 4 is a sectional view of the base upon which the filler rests when not in use.

In detail, 1 represents a cylindrical vessel having a handle 2 and provided with a funnel-shaped bottom 3, and at its end is an extension provided with threads upon which the tapered end piece or tip 4 is screwed, a stop 5 being provided on the outside of this tip, which limits its insertion in the bottle which is to be filled.

6 are guides secured to the inside of the vessel 1 and on opposite sides of the same, and between these the side pieces 7 of the removable frame-work fit, the cross-pieces 8 of this frame-work each having a central perforation through which passes the valve-stem 9, provided at its lower end with a valve 10, which is adapted to close the opening in the inner end of the tip 4, its upper end being connected to one end of the lever 11, which is pivoted at 12 to a bracket 13, attached to the upper cross-piece 8 of the frame-work, the outer end of the lever 11 being turned up and provided with a thumb-piece 15. Around the valve-stem between the two cross-pieces of the frame-work is coiled the spring 16, a nut 17 being secured on the stem below the same for adjusting its tension.

18 is the vessel-cover, and 19 is a hollow sheet-metal base having a central opening in its top and upon which the bottle-filler is adapted to rest when not in use.

The operation of my device is as follows: The vessel being filled with liquid, the tip or

end 4 is inserted in the bottle, and at the same time the end of the lever 11 is depressed, lifting up the valve-stem and opening the valve 10 at the bottom of the vessel, allowing the liquid to flow from the same into the bottle or receptacle that is being filled. When the same is filled to the desired height, the lever 11 is released and the coiled spring 16 forces the valve back into position, closing the opening through the tip 4, and this operation is repeated whenever a bottle is filled. The frame-work which fits between the guide-strips 6 is removable, so that it may be taken out for cleaning at any time after use or when a different liquid is to be used in the filler. It will also be seen that the tip or end on the bottom of the filler is also removable, and these are made in different sizes to accommodate corresponding bottles.

Another use to which my device may be put is in filling stone bottles or jugs, where as the liquid is run in it cannot be seen from the outside, and the filler may be marked off and the desired quantity be turned in the same and from it into the bottle without danger of overflow and waste.

What I claim as my invention, and desire to secure by Letters Patent, is the following:

1. A bottle-filler composed of a cylinder 1, having the spout 4 at its lower end, and a removable frame-work 8 therein, a valve-rod 9, journaled therein, provided with a valve 10, adapted to close the opening of the tip 4, a spring 16, coiled on the valve-rod for holding the valve normally closed, and a lever for lifting the valve, hinged to the top of the valve-rod and provided with a suitable thumb-piece for operating the same, substantially as shown and described.

2. A bottle-filling device comprising a cylinder 1, having a removable tip or spout 4 at its lower end for inserting into the neck of the bottle to be filled, a gaging-stop 5 at one side, a removable partition or frame-work 8 inside the cylinder, a spring-controlled valve-rod passing through the same and provided with a valve on its lower end closing the opening in the tip, and a lever connected to the valve-rod for lifting the valve against the tension of the spring, all combined substantially as shown and described.

3. A bottle-filling device comprising a cylinder 1, having a removable tip or spout 4 at its lower end for inserting in the neck of the bottle to be filled, a gaging-stop 5 at one side, 5 a removable partition or frame-work 8 inside the cylinder, a spring-controlled valve-rod passing through the same and provided with a valve on its lower end closing the opening in the tip, and a lever connected to the valve-

rod for lifting the valve against the tension of the spring, in combination with a rest for holding the filler when not in use.

In witness whereof I have hereunto set my hand this 18th day of January, 1892.

FRANK E. BUTTS.

Witnesses:

JOHN W. NEWTON,
EDMUND ENGLE.