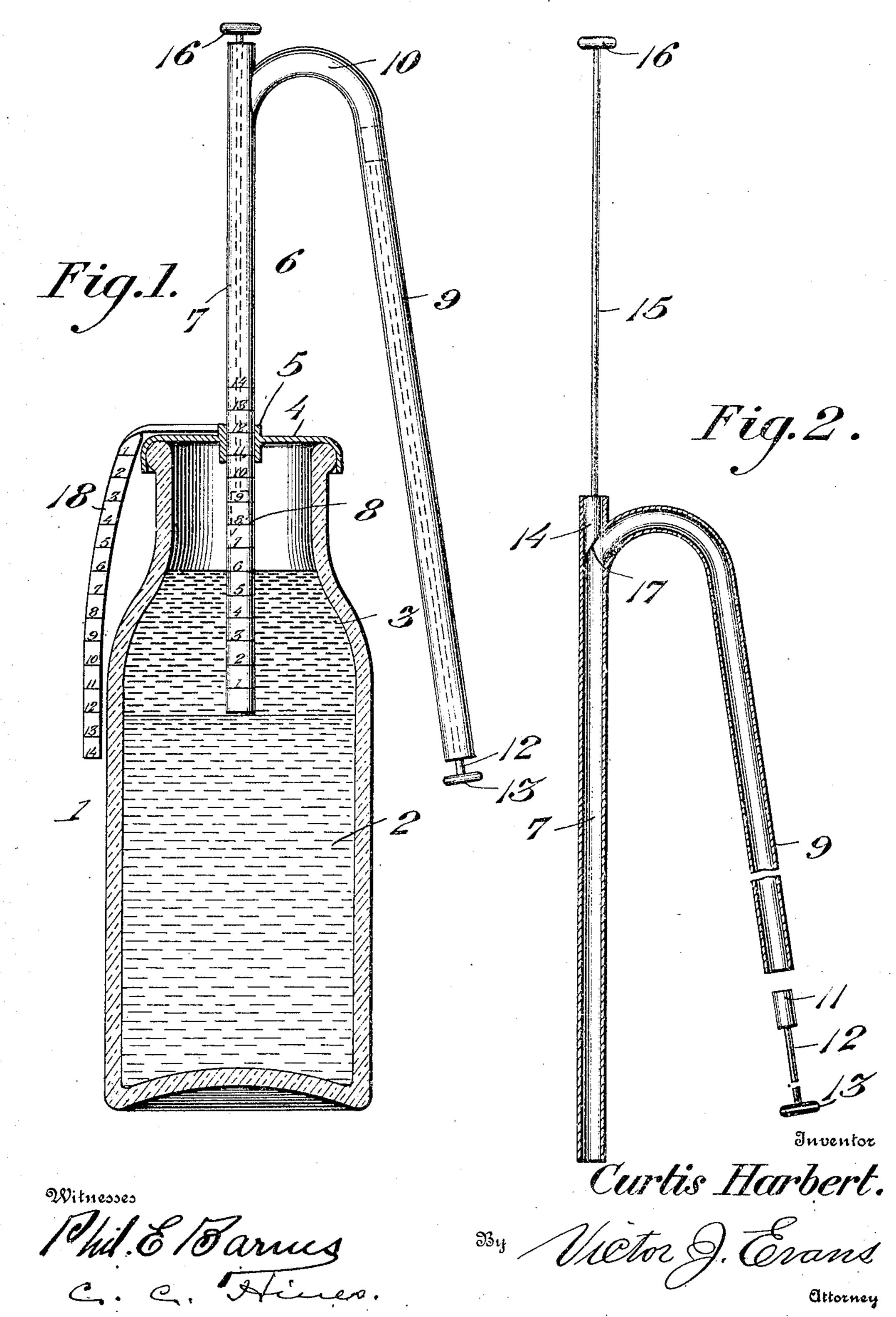
C. HARBERT. SIPHON SKIMMER. APPLICATION FILED AUG. 8, 1906.



NITED STATES PATENT OFFICE.

CURTIS HARBERT, OF SMETHPORT, PENNSYLVANIA.

SIPHON-SKIMMER.

No. 872,232.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed August 8, 1906. Serial No. 329,762.

To all whom it may concern:

Be it known that I, Curtis Harbert, a citizen of the United States of America, residing at Smethport, in the county of 5 McKean and State of Pennsylvania, have invented new and useful Improvements in Siphon-Skimmers, of which the following is a specification.

My invention relates to a device for re-10 moving cream from milk receptacles in such a manner as to draw off the layer of cream without disturbing the underlying body of

milk.

e object of the invention is to provide a 15 simple and effective construction of siphon skimmer, whereby the operation of withdrawing the cream may be conveniently performed.

Another object is to provide a siphon hav-20 ing means for controlling the flow of the cur-

rent of cream.

A still further object is to provide a gage for indicating the depth to which the siphon should be introduced into the bottle or con-25 tainer for the complete withdrawal of the layer of cream.

In the accompanying drawings,—Figure 1 is a sectional view of a milk bottle showing the application of the invention thereto. 30 Fig. 2 is a sectional view of the siphon skim-

mer.

Referring to the drawings, 1 designates a milk receptacle, shown in the present instance in the form of a bottle of ordinary 35 form and standard size to contain, say, a quart of milk; 2 designates a body of milk within the bottle; and 3, the superposed layer of cream which has risen from the milk.

In carrying my invention into practice I 40 provide means for supporting the skimmer upon the neck of a bottle, the supporting means shown in the present instance comprising a cap 4 adapted to rest upon and engage the rim of the bottle neck. This cap is 45 provided with a tubular guide sleeve 5 consiphon 6. The said short leg 7 of the siphon comprises a tube open at each end and provided at its lower end with a scale 8 having 50 graduations in inches with designating numerals extending upwardly in regular order from the lower end thereof. This gage may be of any suitable length and is provided to enable the leg 7 to be inserted a required 55 depth in the bottle in an easy and convenient manner. The long leg 9 of the siphon I from the milk in a bottle may be conven-

is connected in the usual manner to the upper end of the leg 7 by a goose neck or elbow 10, and within said leg 9 is arranged a plunger stopper 11 having a stem 12 terminating 60 at its outer end in a knob or finger piece 13. A corresponding plunger 14 is arranged within the leg 7 and is similarly provided with a stem 15 carrying at its upper end a knob or finger piece 16. The lower end of 65 the plunger 14 is curved, as shown at 17, so that when drawn up to its fullest extent it will conform to the arc of curvature of the upper wall of the part 10, to guide the discharging column of cream thereinto.

Suitably attached to the supporting cap 4 is a gage strip 18, preferably consisting of a section of metallic tape bearing an inch scale arranged in a reverse order to the scale upon the leg 7 of the siphon, namely, 75 with the designating numerals thereon extending downwardly instead of upwardly.

In operation, the device is applied to the bottle in the manner shown in Fig. 1, the cap being first inserted into position and the 80 gage 18 allowed to depend on one side of the bottle. By reference to this gage 18 the operator may determine from exterior visual observation the extent to which the leg 7 should be inserted in the bottle to bring the 85 lower end thereof down to the bottom of the layer of cream 3. It will be observed in the present instance that the numeral 12 on the scale 18 registers with the line of demarkation between the body of milk and layer 90 of cream, thus indicating that the leg 7 should be inserted to the depth of twelve inches. The leg 7 is passed through the guide sleeve 5 in the cap and forced downward until the scale line 12 thereon registers 95 substantially with the upper surface of the cap, the siphon being supported by the frictional engagement between the leg 7 and wall of the sleeve 5. After the parts have been applied, the plunger 14 is drawn up- 100 wardly until it occupies the position shown forming in diameter to the short leg of the in Fig. 2, thus forming a partial vacuum in the siphon, which causes the cream to flow upward in the leg 7 until communication is established with elbow 10, so that the 105 column of cream will discharge through leg 9 as soon as the stopper 11 is withdrawn therefrom.

> It will thus be seen that my invention provides a convenient and simple form of 110 device by which the layer of cream arising

iently withdrawn without withdrawing any of the milk, and by which the short leg of the siphon skimmer may be accurately adjusted to draw off the cream.

Having thus described the invention,

what is claimed as new, is:-

1. A siphon skimmer attachment for milk bottles comprising a supporting member for closing the mouth of the bottle, said mem-10 ber being provided with a guide sleeve, a siphon having its intake leg slidably mounted in said sleeve and provided with a scale having designating numerals extending in increasing valuation upwardly from the low-15 er end thereof for coaction with a portion of said supporting member, and an indicating strip carried by said supporting member and projecting downwar at one side thereof to depend upon the exterior of the 20 bottle, said strip being provided with a cooperating scale having its designating nu-

merals extending downwardly thereon. 2. A siphon skimmer attachment for milk bottles comprising a supporting member 25 adapted to engage the mouth of the bottle, a siphon having its intake leg slidably mounted in said supporting member and provided with a gage comprising a set of designating numerals extending upwardly thereon for 30 coaction with said supporting member, and a gage strip carried by the supporting member and projecting downward at one side thereof to depend upon the exterior of the bottle, said gage being provided with a co-35 operating set of designating numerals extending downwardly thereon.

3. A siphon skimmer attachment for milk bottles comprising a flanged cap adapted to

engage the mouth of the bottle, said cap being provided with a guide sleeve, a siphon 40 having its intake leg slidably mounted in said sleeve and provided with scale graduations and designating numerals extending upwardly in increasing value from the lower end thereof for coaction with said cap, and 45 a flexible gage strip secured at one end to the cap and projecting downward at one side thereof to depend therefrom upon the exterior of the bottle, said strip being provided with a coöperating set of graduations 50 and designating numerals extending down-

wardly in increasing valuation.

4. A siphon skimmer attachment for milk bottles comprising a flanged cap having a central guide sleeve, a siphon having a short 55 leg open at both ends and slidably mounted in said sleeve, and a long leg connected at its upper end with said short leg below the upper end of the latter, the lower portion of the short leg of the siphon being provided 60 with a scale having numerals extending upwardly thereon for coaction with a portion of the cap, stoppers slidably mounted in the legs of the siphon, and a gage strip connected at its upper end with the cap and depending 65 at one side therefrom to project down upon the outside of the bottle, the numerals upon said strip being arranged in reverse order to the numerals of the scale on the siphon.

In testimony whereof, I affix my signature 70

in presence of two witnesses.

Witnesses:

HARRIS SOMERS, FRANK ZUPP.