

(No Model.)

T. G. LEMMON.
LIQUID ELEVATOR.

No. 361,069.

Patented Apr. 12, 1887.

Fig. 1.

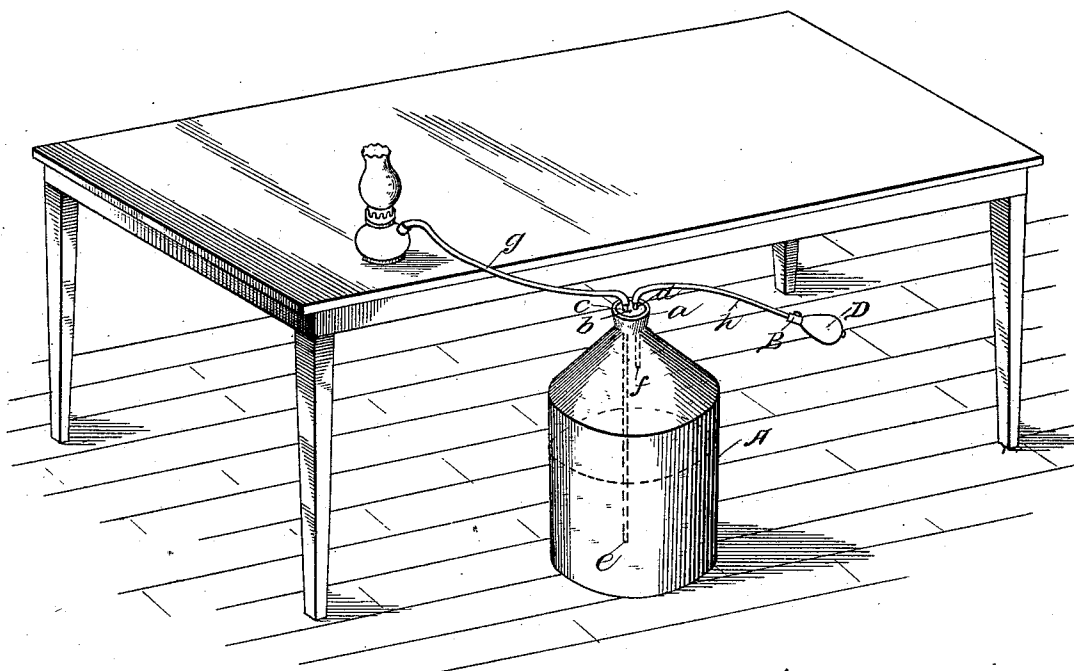
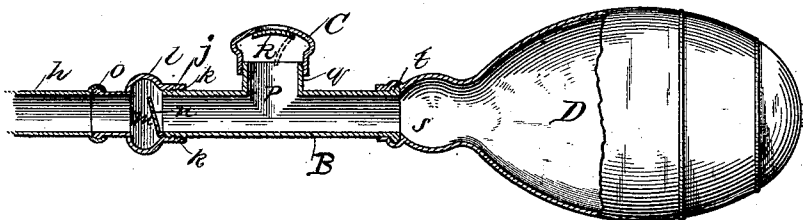


Fig. 2.



Witnesses:

Harry S. Rollee

L. W. Harris

Inventor

Thomas G. Lemmon

By his Attorneys

James H. Young
H. B. Harris

UNITED STATES PATENT OFFICE.

THEODORE G. LEMMON, OF KANSAS CITY, MISSOURI.

LIQUID-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 361,069, dated April 12, 1887.

Application filed January 31, 1887. Serial No. 225,937. (No model.)

To all whom it may concern:

Be it known that I, THEODORE G. LEMMON, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Liquid-Elevators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to devices for removing liquids from barrels, casks, &c.; and it is the object of my invention to provide a device of the character mentioned which shall be simple in its construction, effective and positive in its operation, and which may be manufactured and supplied at a slight cost.

With the above and other objects in view the invention consists in the features of construction and combination of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is an elevation illustrating my invention and the manner of using the same. Fig. 2 is a detail sectional view.

Corresponding parts in both the figures are denoted by the same letters of reference.

Referring to the drawings, A represents a can or vessel of ordinary construction, and having the usual neck, *a*, with a stopper, preferably of cork. The cork stopper *b* is provided with two openings, *c* *d*, and through the opening *c* extends a metal tube, *e*, which has its lower end located adjacent to the bottom of the can and its upper end extending a slight distance beyond the stopper. Through the other opening, *d*, extends a short tube, *f*, which just enters the can, and the upper end of which is, like the tube *e*, extended beyond the stopper *b*.

To the upper end of the tube *e* is attached a rubber tube, *g*, of suitable or desired length, and said tube is adapted to be inserted into the vessel to which the liquid is to be transferred.

To the upper end of the tube *f* is attached a short rubber tube, *h*, as shown.

B represents a chamber, which is of metal, and which is tubular in form. On one end, *i*, of this chamber are formed exteriorly screw-threads *j*, which are adapted to be engaged by screw-threads *k*, formed interiorly

on a collar, *l*. This collar *l* has an enlarged portion, *m*, to permit a valve, *n*, hinged to the end of the chamber B, to be readily opened and closed without any interference with the sides of the said collar. The outer end of the collar is formed with an annular flange or shoulder, *o*, and the rubber tube *h* is forced over the same and held in place thereby. The chamber B is formed about midway its ends with an opening, *p*, surrounding which is a circumferential flange, *q*, formed integral with the chamber. This flange is exteriorly threaded at its upper end, and removably secured on said upper end is a cap, C, which has an opening in its upper end closed by a valve, *r*.

On the end *s* of the chamber B is formed a flange or shoulder, *t*, over which is forced the end of an air-bulb, D, preferably of rubber.

The operation of the device as thus described is as follows: By compressing the rubber bulb the valve *n* is opened and a quantity of air forced down upon the surface of the liquid, and a quantity of the latter is by atmospheric pressure forced into the vessel being filled through the tubes *e* and *g*. After the air has all been forced from the bulb the latter is released, thus closing the valve *n* and opening the valve *r* to fill the bulb with air, this operation being continued until the vessel is filled or the desired quantity of liquid obtained.

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

1. In a liquid-elevator, the combination, with an air-tube and an air-bulb, of a connecting-chamber having a valve, and a cap removably secured to said chamber, and having a valve, as set forth.

2. The combination, with an air-tube and an air-bulb, of a connecting-chamber, a collar thereon, said collar being enlarged, as described, a valve secured to the end of the chamber and working in the collar, and a cap having an opening closed by a valve, substantially as set forth.

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

THEODORE G. LEMMON.

Witnesses:

F. C. FARR,
H. H. CRITTENDEN.