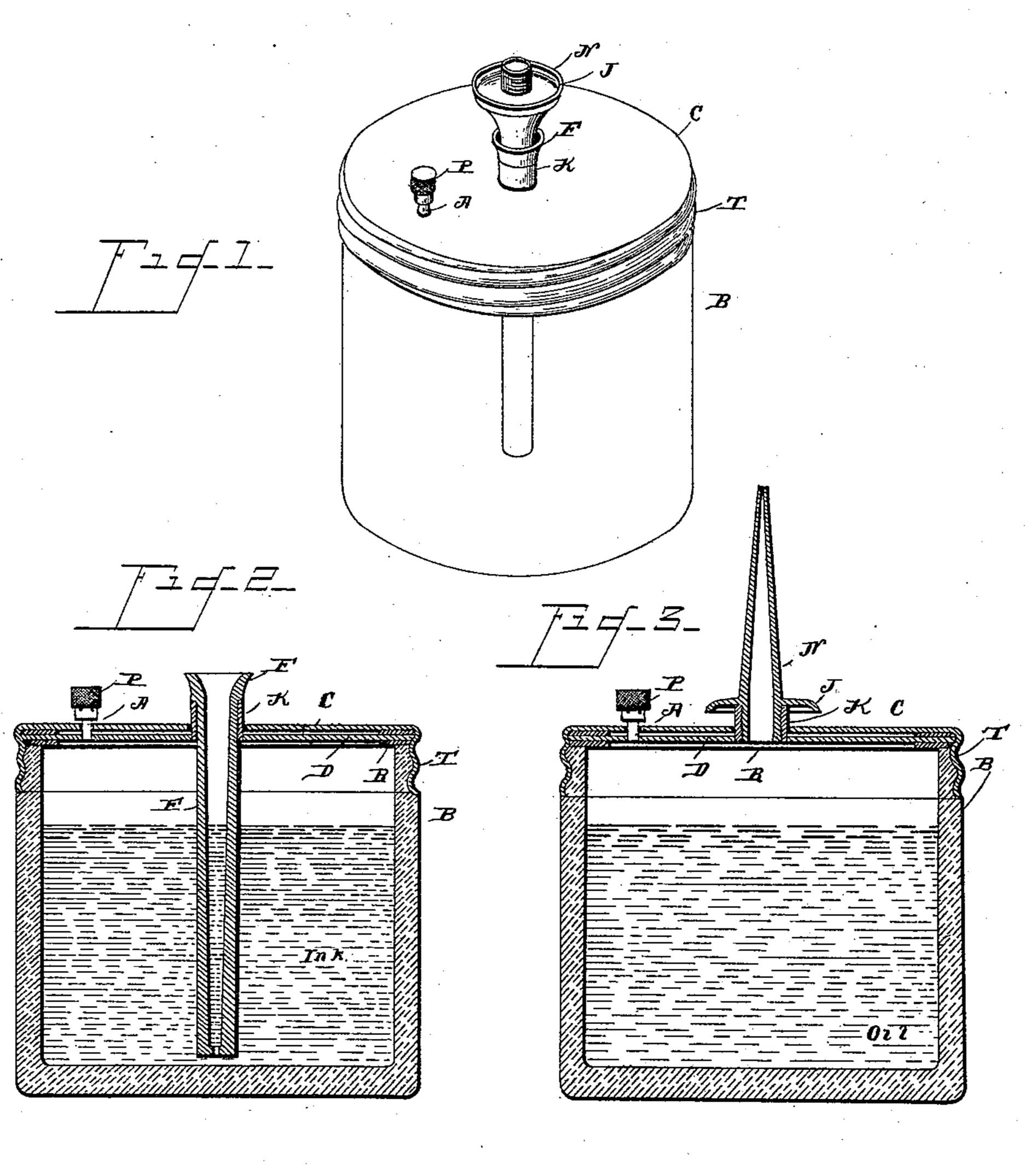
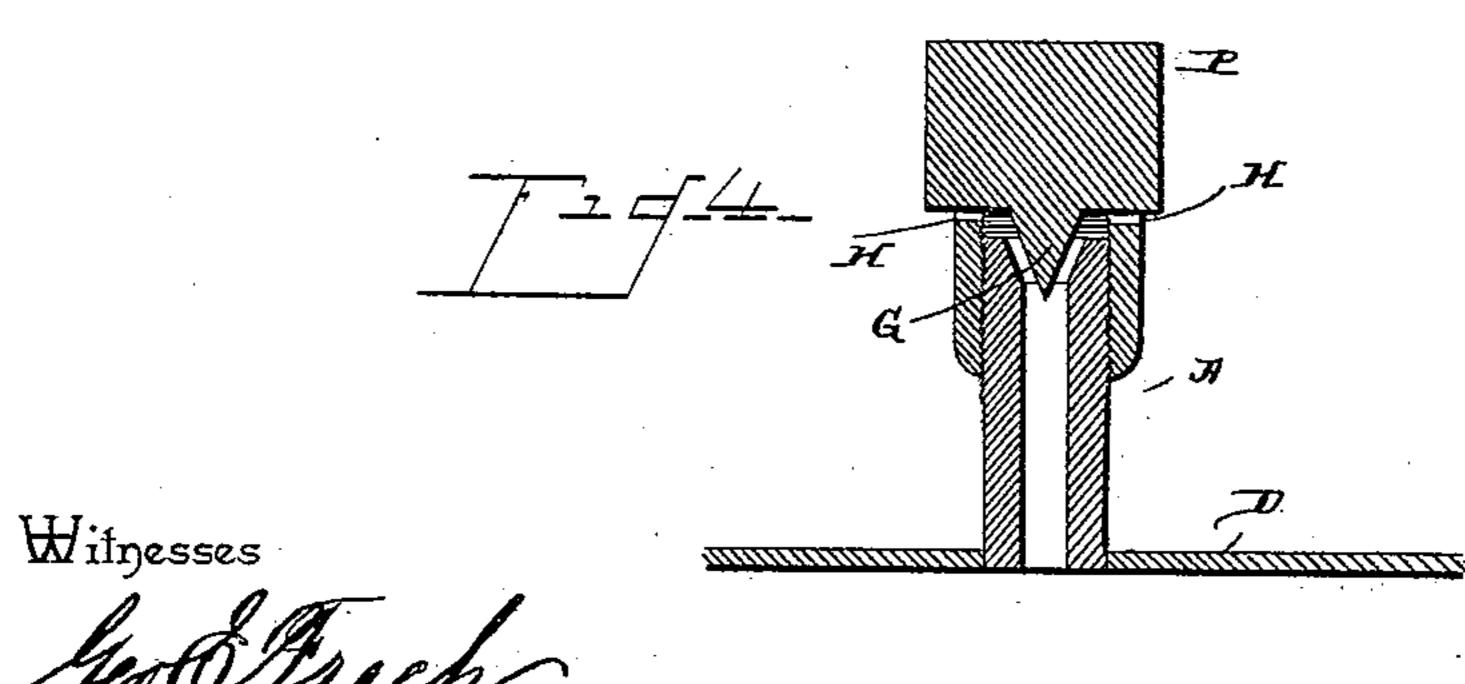
(No Model.)

## G. P. YULE. EJECTING BOTTLE CAP.

No. 446,314.

Patented Feb. 10, 1891.





George P Jule

By Mas Attorneys

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## United States Patent Office.

GEORGE P. YULE, OF CLINTON, IOWA, ASSIGNOR OF ONE-HALF TO REED F. STRONG, OF SAME PLACE.

## EJECTING BOTTLE-CAP.

SPECIFICATION forming part of Letters Patent No. 446,314, dated February 10, 1891.

Application filed June 5, 1890. Serial No. 354,361. (No model.)

To-all whom it may concern:

Be it known that I, GEORGE P. YULE, a citizen of the United States, residing at Clinton, in the county of Clinton and State of Iowa, 5 have invented a new and useful Vessel for Liquids, of which the following is a specification.

This invention relates to packing and storing vessels of glass, and the object thereof is to to provide a receptacle adapted to be sold filled with ink, and which, after the ink has been used therefrom, may be used as an oilcan.

To this end the invention consists of a body 15 having a perforated cover, below which is a diaphragm, a socket and an air-inlet tube extending from said diaphragm through holes in the cover, a cap for the air-tube, and a funnel and oil-nozzle adapted to be interchange-20 ably inserted in said socket, the whole operating as hereinafter more fully described, and as illustrated in the drawings, in which—

Figure 1 is a perspective view of this device as it is sold. Fig. 2 is a central trans-25 verse section of the same when used as an ink-well. Fig. 3 is a similar section when used as an oil-can. Fig. 4 is a considerablyenlarged section of the air-tube and its closing-cap, showing the latter in position to ad-30 mit air through the tube.

Referring to the said drawings, the letter B designates the body, which is preferably cylindrical and of glass, and C is the cover for the same, which is preferably of metal, 35 secured upon the body by threads T around the upper edge of the latter, as shown in the sectional views. At the center of the cover and at one side thereof are holes, for a purpose to appear presently.

D is a diaphragm made of any resilient cured around its edge. This flange rests upon the upper edge of the body when the parts are in place, and the diaphragm is secured be-45 neath the cover C, as shown. At the center of the diaphragm is a socket K therethrough, and near one side is an air-tube A, each of which projects through the corresponding holes in the cover. The upper end of the 50 air-tube is threaded, as shown, and screwed | when used. Here another advantage of the 100

upon said end is a cap P, provided with a number of fine holes II through its sides, and in its upper end inside with a plug G, which fits into the upper end of the air-tube when the cap is screwed down tightly. When the 55 cap is partly unscrewed, this plug is withdrawn and the air can pass in through the holes H and down the tube, as seen in Fig. 4. Into the socket K is screwed a discharge-tube, which is either a funnel or an oil-nozzle, as 60 described below.

F is a funnel, preferably of gutta-percha, and while its interior is funnel-shaped its exterior is preferably cylindrical, as shown. This funnel fits within the socket K and is 65 of sufficient length to extend nearly to the bottom of the body when in place, as seen in Fig. 2. The body being filled with ink, (as the device is sold,) if the tip of the pen be inserted in the open upper end of the funnel 70 and pressed downward lightly the diaphragm will spring and a small quantity of ink will be forced up the funnel and onto the pen, provided the air-tube is closed and no air can escape therefrom. The pen may then be used 75 in the usual manner, and it can also be left in the funnel after using, when the ink thereon will flow back into the body. If the cap P be turned to the left, (unscrewed,) air will be permitted to pass from the body, and the ink 80 that may be standing within the mouth of the funnel will flow back into the body. In this position of parts no dust can get at the ink, and the latter will not evaporate or become dirty and thick. The exterior of the funnel 85 is provided with threads, which take into threads on the interior of the socket, and after the device has been used as an inkstand and all the ink has been exhausted the funnel may be unscrewed and removed. The body 90 material and having a rubber flange R se- | can then be refilled or the following use be made of the device.

> N is an oil-nozzle having a threaded larger end adapted to take into the threads within the socket K, and if the body be filled with 95 oil and this nozzle applied it will be obvious that the device may be used as an oil-can in a manner similar to its use as an ink-well, except, of course, that it must be inverted

construction manifests itself, and that is that when the nozzle Norits surrounding flange Jis pressed inwardly toward the body the oil will be ejected therefrom through the nozzle, pro-5 vided the cap P be closed, and said cap can be loosened to permit the oil within the nozzle to flow back into the body after using in the same manner as above.

The device is put upon the market with the 10 body filled with ink and the funnel and nozzle both in place, as seen in Fig. 1, full instructions accompanying each bottle in order that the many advantages possessed by the

invention may all be understood.

I claim as the salient features of this in-

vention—

1. In a vessel for liquids, the combination, with the body and the cover closing the same and provided with two holes, of the diaphragm 20 inserted between said body and cover, a threaded socket and an air-tube through said diaphragm projecting loosely through said holes, a cap screwed on said tube and having a number of holes through it, a plug for clos-25 ing the upper end of the air-inlet, and a discharge-tube screwed into said socket, substantially as described.

2. In a vessel for liquids, the combination, with the body and the cover closing the same and provided with two holes, of a diaphragm 30 inserted between said body and cover, a threaded socket and an air-tube through said diaphragm projecting loosely through said holes, a cap screwed on said tube for closing the upper end of the air-inlet, and a discharge- 35 tube screwed into said socket and depending into the liquid, substantially as described.

3. In a vessel for liquids, the combination, with the body and the cover closing the same and provided with two holes, of a diaphragm 40 inserted between said body and cover, a threaded socket and an air-tube through said diaphragm projecting loosely through said holes, and a downwardly-extending funnel screwed into said socket and depending into 45 the liquid, the interior of said funnel being tapered, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature

in presence of two witnesses.

GEORGE P. YULE.

Witnesses:

HARRY OATES, JOHN S. MURRAY.