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B. B. HAUSER

1,852,520

LIQUID CONTAINER TRAP

Filed June 22, 1931

Fig. 1.

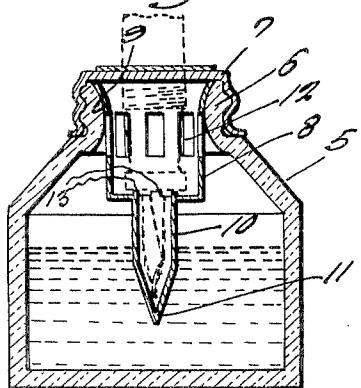


Fig. 2.

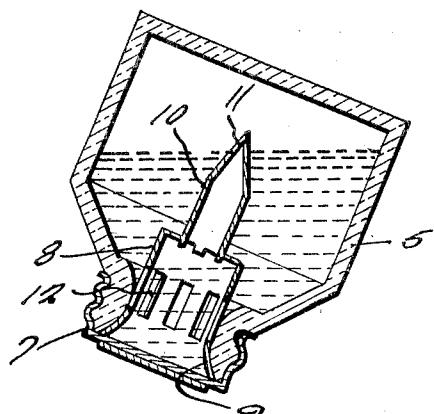


Fig. 3.

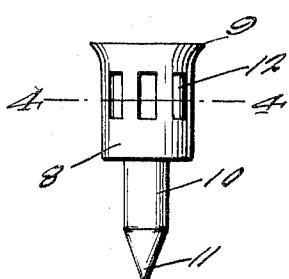
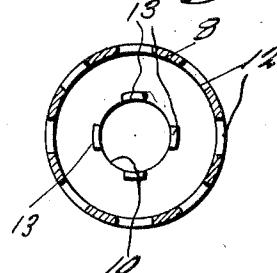


Fig. 4.



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LIQUID CONTAINER TRAP

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This invention appertains to improvements in bottles and more particularly to a trap therefor, in which a predetermined amount of the contents of a bottle can be trapped for displacement from the bottle. An important object of the invention is to provide a bottle which can be used for containing ink, thus facilitating the filling of fountain pens in a convenient and clean manner.

Another important object of the invention is to provide a trap which can be used in conjunction with substantially any type of ink bottle.

During the course of the following specification and claims, other important objects and advantages of the invention will become apparent to the reader.

In the drawings:—

Figure 1 represents a vertical sectional view of the ink bottle in upright position.

Fig. 2 represents a vertical sectional view through the ink bottle in inverted position.

Fig. 3 represents a side elevational view of the trap unit.

Fig. 4 represents an enlarged sectional view taken substantially on the line 4—4 of Fig. 3.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 represents the ink bottle having the threaded neck portion 6 with which the usual cap 7 is engageable.

The novel trap structure includes a cylindrical shaped cup 8 flared at its upper open end 9 the bottom of this cup 8 having an opening therein and from the edge portion of the cup at this opening depends the small barrel 10 provided with the constricted closed lower end portion 11. The intermediate portion of the cup 8 is provided with vertically extending slits 12, as is apparent in Fig. 3.

The purpose in having the upper end portion of the cup 8 flared is to permit the same to bear against the inner side of the neck 6 so that the trap will not fall into the bottle.

It can now be seen, that by removing the cap 7, the trap can be inserted into the bottle so that the flared portion 9 engages against the inner side of the neck 6. The cap 7 is

now replaced and prevents displacement of the trap when the bottle is inverted to the position shown in Fig. 2. In this position, ink flows through the slits 12, into the cup 8, so that when the bottle is again returned to its upright position, a quantity of the ink has been forced in the cup and depends in the barrel 10.

By now removing the cap 7, the fountain pen can be lowered into the trap with its point depending into the barrel 10. The lower end of the pen holder proper will rest upon the bottom of the cup 8, while the pen point will depend down into the barrel 10. Thus no ink will get onto the threads of the pen holder, and a very little on the lower end of pen holder. A cleaner pad is provided attached to the top of the cap as shown in Figs. 1 and 2.

Obviously, the entire amount of ink or fluid in the bottle can be removed through this trap structure. Furthermore, the operation of filling this pen can be clearly observed.

It will be understood also, that the cup structure can be adjusted to various sizes of bottles by use of flexible panels between openings 12. Further, the openings in the cup permit the ink to flow freely into the cup. In this manner, the pen can be filled in an easy, convenient and quick manner. The lower portion of the cup portion of the trap is provided with projections 13 for supporting the lower end of the pen holder to permit ink to flow freely from the cup into the barrel 10 without obstruction by the holder.

While the foregoing specification sets forth the invention in specific terms, changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having thus described my invention, what I claim as new is:—

1. A bottle trap of the character described comprising a cup having an opening in the side thereof, a depending barrel on the bottom of the cup, said barrel being closed at the lower end thereof and being of smaller cross section than the cup to provide a shoulder between the barrel and the cup, the lower end

of the barrel being constricted to provide a well of gradually decreasing cross section in depth.

2. A bottle trap of the character described comprising a cup having a filler opening therein at the side thereof, a depending barrel at the bottom of the cup, said barrel being of a diameter less than the diameter of the cup to provide a shoulder between the barrel and cup, the filler opening in the cup being located above the shoulder.

3. A bottle trap of the character described comprising a cup having filler openings in the side thereof, a depending barrel on the bottom of the cup, said barrel being of a diameter less than the diameter of the cup to provide a shoulder between the barrel and cup, said barrel being closed at its lower end, upstanding projections at the upper end of the barrel for disposition above the bottom of the cup, the said filler openings in the cup being located above the shoulder.

In testimony whereof I affix my signature.
BONNER B. HAUSER.

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