(No Model.)

A. POSGAY.

SIPHON HEAD.

No. 595,112. Patented Dec. 7, 1897.

Fig: 1.

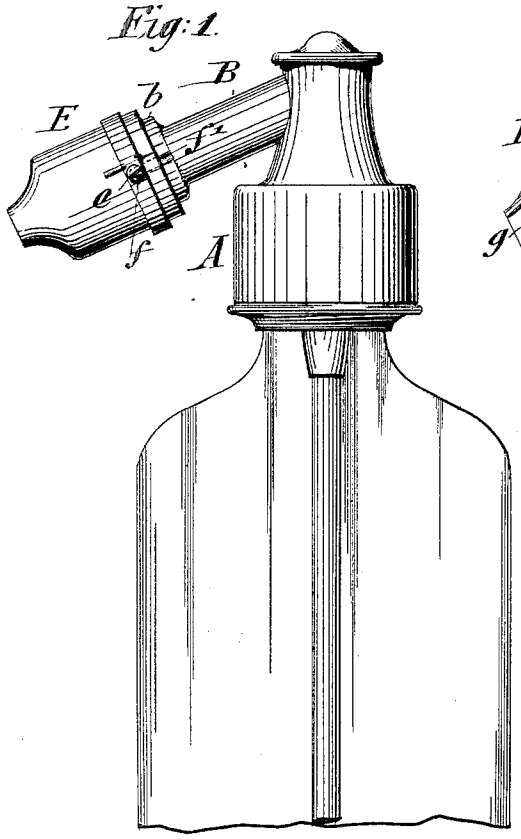


Fig: 2.

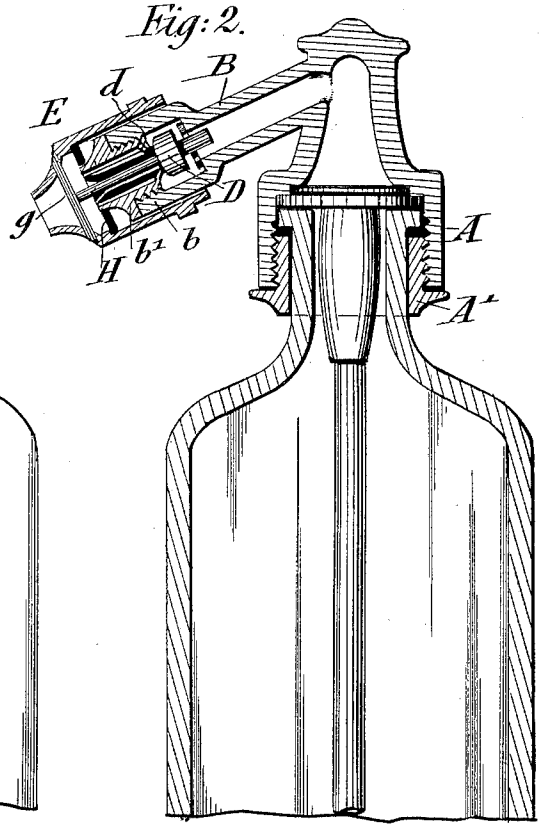


Fig: 3.

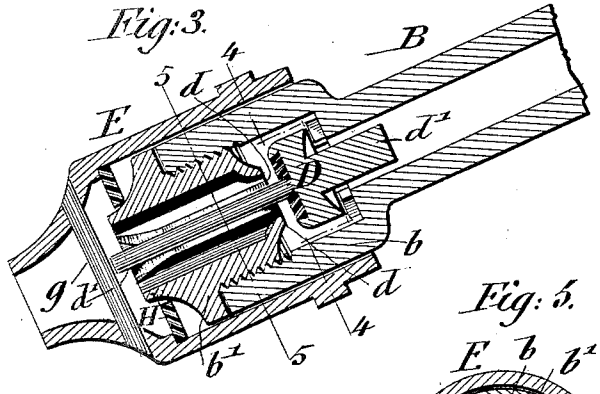


Fig: 4.

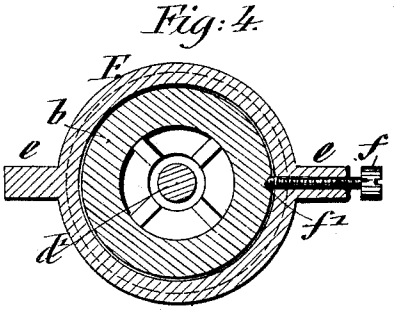
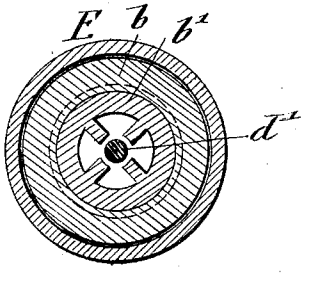


Fig: 5.



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SIPHON-HEAD.

SPECIFICATION forming part of Letters Patent No. 595,112, dated December 7, 1897.

Application filed August 20, 1897. Serial No. 648,873. (No model.)

To all whom it may concern:

Be it known that I, ALEXIUS POSGAY, a citizen of the United States, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Siphon-Heads, of which the following is a specification.

This invention relates to an improvement in heads for siphons used for carbonated liquids, by which a very durable head is obtained, the valve of which can be replaced with great facility, so as to avoid the tendency to leakage of the present siphon-heads and the return of the same for repairs or recasting; and the invention consists of a head for siphon-bottles which comprises a cap secured on the neck of the bottle, an inclined nozzle extending in downward direction from said cap and being provided with a detachable screw-section, a valve the spindle of which is guided in said nozzle, and an exterior sleeve provided with diametrical projections and adapted to slide on the nozzle, so as to open the valve whenever a part of the carbonated liquid is to be discharged.

In the accompanying drawings, Figure 1 represents a side elevation of my improved head for siphon-bottles. Fig. 2 is a vertical longitudinal section of the same; and Fig. 3 is a detail in section of the parts composing the valved nozzle, showing the sleeve retracted and the valve open. Figs. 4 and 5 are transverse sections on the lines 4 4 and 5 5, respectively, of Fig. 3.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a cap which is provided with an interior screw-thread that is fitted on corresponding screw-threads on a sectional ring A', fitted upon the neck of the siphon-bottle, which latter is made of the well-known size and shape. Into the cap is inserted the glass tube through which the liquid under pressure in the siphon-bottle is discharged. From the upper narrow part of the cap A extends in downward direction the valved nozzle B, which is composed of a stationary nozzle-section *b* and a detachable nozzle-section *b'*, the shank of the latter being screwed into the corresponding end of the nozzle-section *b*, as shown in Fig. 2. The detachable nozzle-section *b'* is provided at its inner end with a seat *d* for the valve D, the spindle *d'* of which extends through the valve, the upper end extending into the stationary nozzle-section, while the lower end extends through the detachable nozzle-section. The pressure in the siphon acting on the valve keeps it pressed on its seat, so as to prevent the discharge of any liquid or the leakage of gas from the bottle. On the valved end of the stationary nozzle *b* is arranged a movable sleeve E, which is provided at diametrically opposite points with projections *e* for taking hold of the sleeve and moving the same along the valved end of the nozzle B. The sleeve E is retained on the valved nozzle end by a screw *f*, which engages a groove *f'* on the outside of the valved nozzle. The lower end of the sleeve is formed in conical shape, which serves as the discharge-spout for the liquid. A pin *g* passes transversely through the nozzle end of the sleeve E and serves to engage the lower end of the valve-spindle, so as to lift the same when the sleeve is moved in upper direction and open thereby the valve and permit the discharge of carbonated liquid. As soon as the sleeve is released the pressure of the liquid in the siphon-bottle returns the valve and the sleeve into their normal closed position. A disk H, of suitable elastic material, is arranged at the interior of the sleeve and is provided with a central opening to receive the end of the detachable nozzle-section *b'*, whereby the sleeve is prevented from working back and forth on the nozzle when the siphon is empty.

The parts of the siphon-head, with the exception of the valve and the transverse pin *g*, are cast of zinc, while the valve and the valve-stem are preferably made of aluminium, so that the valve is light and able to follow readily the motion of the sleeve when the same is moved on the nozzle so as to open and close the valve. As no spring is used the valve of my improved siphon-head is not liable to get out of order, which is one of the main objections to all the siphon-heads heretofore in use, in which the spring soon corrodes under the influence of the liquid, so that the head has to be returned for repairs. The valved sectional nozzle can be readily taken apart in my improved head and be

readily repaired by replacing new valve or new packing-rings. As all the working parts are arranged in the nozzle and not in the cap, any leakage can be readily remedied, so that a tightly-fitting and durable siphon-head is obtained that is readily operated by the simple shifting motion of the sleeve.

Having thus described my invention, what I claim is—

1. A head for siphon-bottles composed of a cap, a valved nozzle extending in downward direction from the upper end of said cap, a sliding valve arranged in the enlarged nozzle portion proper, and a sliding sleeve guided on the nozzle and adapted to engage and open the valve, substantially as set forth.

2. A head for siphon-bottles, consisting of a cap having a contracted upper portion, a downwardly-extending sectional nozzle formed of a stationary and a detachable portion, a valve in said nozzle, and an exterior sleeve guided on the valved portion of the nozzle provided with a transverse pin for engaging the spindle of the valve in opening the same, substantially as set forth.

3. A head for siphon-bottles, consisting of a cap, a downwardly-inclined nozzle on said cap, a valve in said nozzle, a sleeve provided with a conical spout, and a transverse pin in said spout for engaging and opening the valve, and means for guiding said sleeve on the nozzle, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ALEXIUS POSGAY.

Witnesses:
PAUL GOEPEL,
GEO. W. JAEKEL.