(No Model.)

S. TRILLER.

SIPHON HEAD.

No. 533,683. Patented Feb. 5, 1895.

Fig. 1.

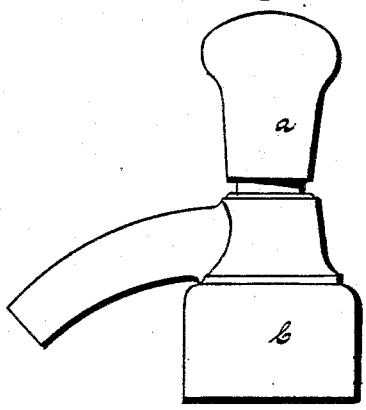

Fig. 3.

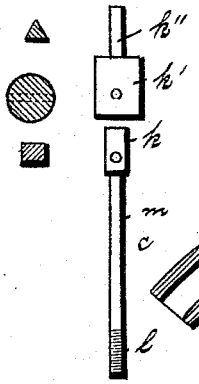

Fig. 2.

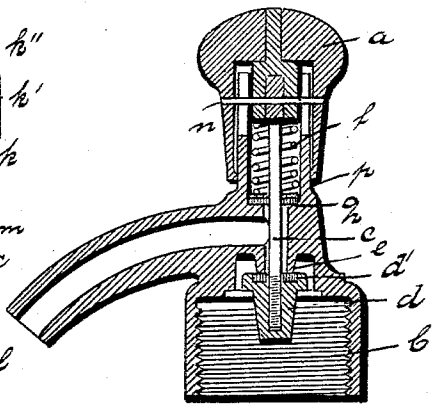

Fig. 5.

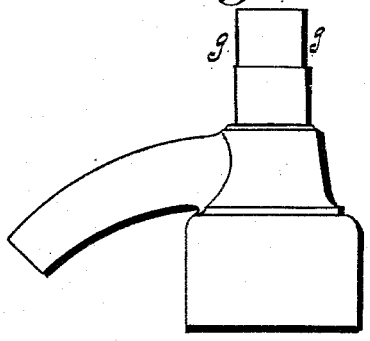

Fig. 7.

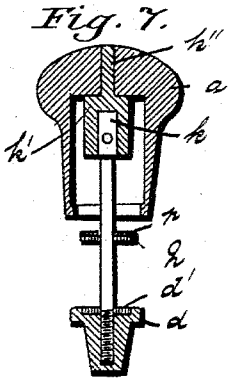

Fig. 6.

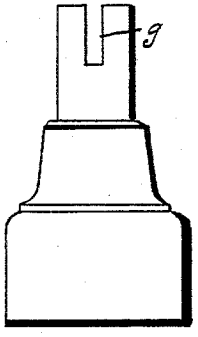

Fig. 8.

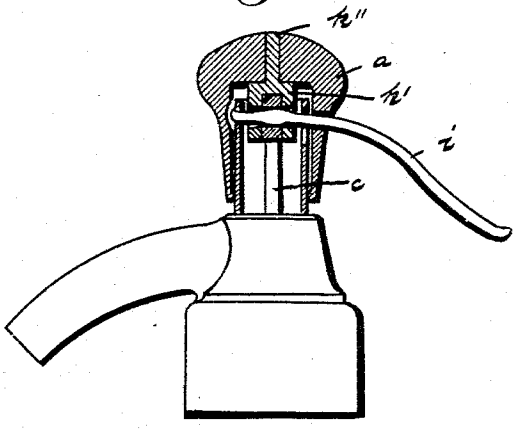

Fig. 9.

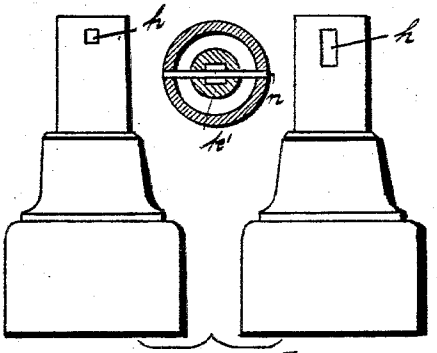

Fig. 4.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SAUL TRILLER, OF VIENNA, AUSTRIA-HUNGARY.

SIPHON-HEAD.

SPECIFICATION forming part of Letters Patent No. 533,683, dated February 5, 1895.

Application filed May 9, 1894. Serial No. 510,660. (No model.)

To all whom it may concern:

Be it known that I, SAUL TRILLER, a subject of the Emperor of Austria-Hungary, residing at IV Schaumburggasse 38, Vienna, Austria-Hungary, have invented certain new and useful Improvements in Siphon-Heads, of which the following is a specification.

My invention relates to siphon heads.

The heads of siphons for soda water or other waters containing carbonic acid as at present used are manufactured of cast tin with the upper head fixed and the valve forming the closing device operated by a lever shaped finger. This construction is objectionable as the cap which closes the upper head drops after a certain time, so that dirt can accumulate and the siphon head becomes inoperative.

By my improvements and by the use of cast soft iron, as the material it has become possible to rigidly connect the valve rod with the head, to make the latter movable and to close the same from all dust or other impurities; none of the single parts can be lost and there is no danger that the siphon head may become useless.

In the drawings Figure 1, shows an exterior view of the siphon head. Fig. 2, shows a longitudinal section of the siphon head in the direction of the exit tube. Fig. 3, is a view of details. Figs. 5, 6 and 7 show details. Figs. 4, 8 and 9 show details of a modified form.

a is the upper part of the head and C the lower, *c* being the valve rod, *d' e*, respectively the valve and the valve seat and *f* the spring. The valve rod *c* consists of the middle piece *m* with the thread *l* on which is the nut *d*. It is connected to the head by the parts *k k' k''* of one or more pieces. *k* has a square cross section; *k'* a circular, and *k''* a square or triangular cross section. *k''* penetrates into the interior of the upper part of the head *a* while the cross pin *n* Fig. 4, which catches into the upper head *a*, Fig. 2, and is cast into the same with the upper part of the valve rod so that the upper head and the valve rod form one body, passes through *k* and *k'*. The valve rod *c* and the pin *n* are of metal and are silvered or nickeled. The spring *f* is located upon a small metallic plate *p* which itself rests upon the calking ring *q*. The grooves *g g*, Figs. 5 and 6 serve for guiding the pin *n* straight and the head cannot turn at either side. Fig. 8, shows a modification in which the pressing down of the upper head *a* instead of occurring directly is caused by a finger *i*. In this case the pin *n* is left out and the connection of the valve rod *c* with the head *a* is established only by the upper part *k''*. The finger *i* plays in the slots *h h'*, Fig. 9, and is guided by the reinforcement *k'* of the valve rod *c*.

The whole head which as has been said is preferably made of cast soft iron is tinned or nickeled.

The device may be made of any suitable material as aluminium.

What I claim is—

1. In combination in a siphon head, the head piece *a*, the lower part C having upward extension fitting into the head piece and slotted, the valve, the valve stem having the perforated head piece, the block *k'* having a perforation and an extension *k''* fitted on the head piece *a*, and the cross pin passing through the head of the valve, the block *k'*, the slotted extension and engaging the head piece *a* whereby the same is guided vertically and all the parts connected and the spring around the valve stem bearing on the block *k'* and the washer *p*, substantially as described.

2. In combination in a siphon head, the hollow head piece *a*, the lower part C having an upward extension fitting into the head piece and slotted, the valve stem, the cross piece extending through the valve stem and the slotted extension and engaging the head piece and the spring about the valve stem for holding the valve to the seat, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

SAUL TRILLER.

Witnesses:
HEINRICH FALIVAROSKY,
Z. BELMONT.