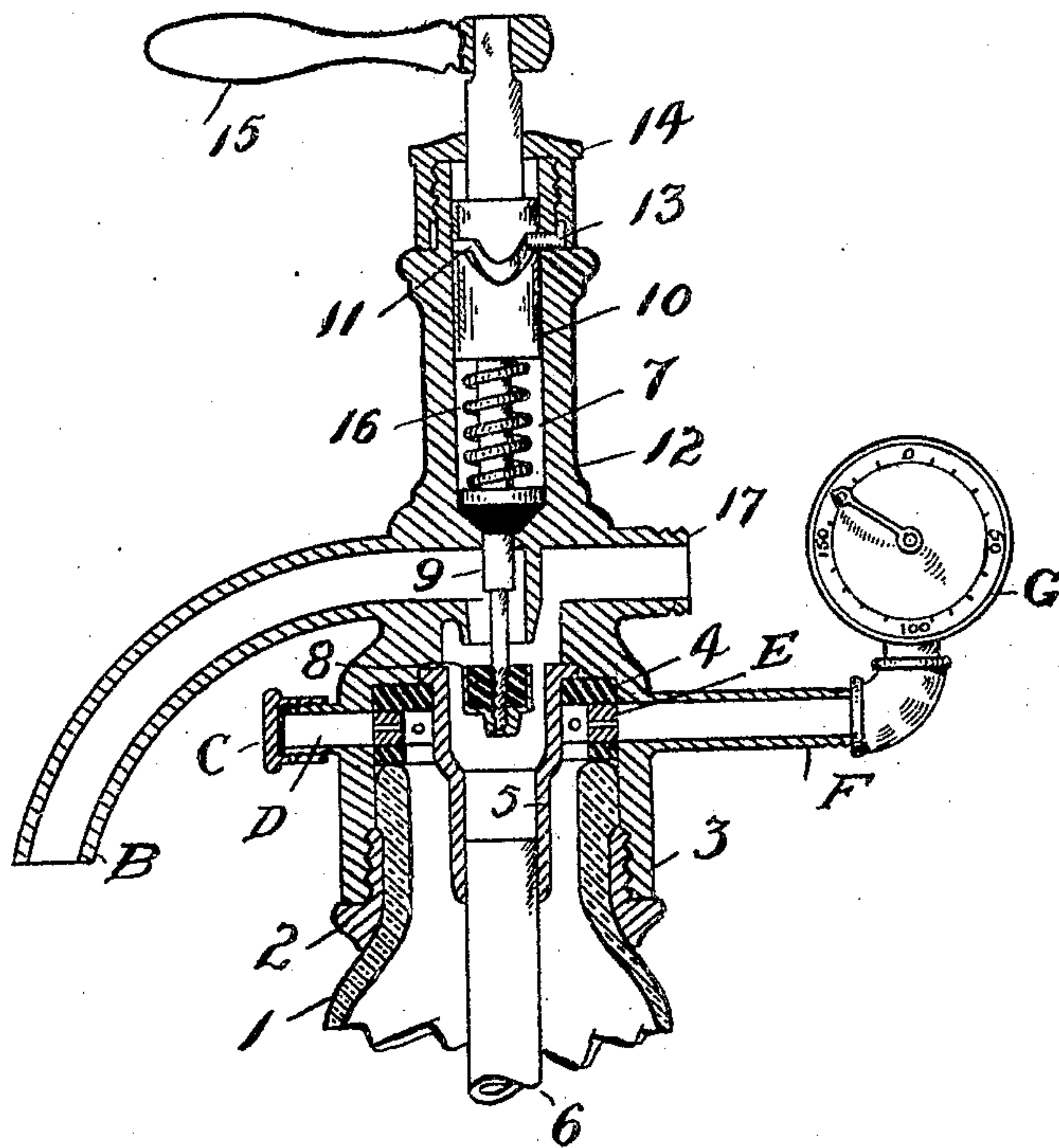


No. 798,192.

PATENTED AUG. 29, 1905.

D. LANDAU.
SIPHON HEAD AND NECK.
APPLICATION FILED AUG. 8, 1904.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DEWIS LANDAU, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO LANDAU ECONOMIC SYPHON COMPANY, OF SAN FRANCISCO, CALIFORNIA, A CORPORATION OF CALIFORNIA.

SIPHON HEAD AND NECK.

No. 798,192.

Specification of Letters Patent.

Patented Aug. 29, 1905.

Application filed August 8, 1904. Serial No. 220,047.

To all whom it may concern:

Be it known that I, DEWIS LANDAU, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Siphon Heads and Necks; 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.

This invention relates to certain improvements in siphon heads and necks; and it has for its objects to produce such a device which can be readily attached to an ordinary siphon-bottle used for dispensing aerated waters and which will possess the requisites of strength and durability and which will be especially simple in construction and efficient in operation.

In this invention I have made provision for the ready refilling of the bottle without the necessity of the employment of expensive mechanism such as is now generally employed for that purpose.

By the employment of this device it is possible to dispense the soda-water directly from the bottle or through the head thereof directly from a larger storing-reservoir.

I have also arranged the neck in such a manner as to enable it being readily interposed between any ordinarily-formed head and the usually-constructed bottle, thereby affording many advantages without the expense of providing a head especially constructed.

I am enabled to accomplish the objects of my invention by the means illustrated in the accompanying drawing, in which the figure is a vertical central section of the complete device.

Referring now to the above view by numerals and letters, 1 represents the top of an ordinarily-formed glass siphon-bottle, encircling the neck of which is set the ordinarily-constructed two-part metal collar 2, the outer surface of which is screw-threaded to engage with similarly-formed threads in the base 3 of the metal head. Held securely up against the inner roof of the base 3 by means of the upper rim of the neck of the bottle and the interposed rubber washer 4 is the funnel-shaped

member 5, to which is secured the ordinary glass siphon-tube 6.

Adapted to reciprocate in a vertical channel 7 and bearing at its lower extremity a rubber valve-head 8 is the stem 9, the upper extremity of which terminates in a head 10, in which is formed a double-inclined V-shaped groove 11. Engaging with this groove 11 and held in the neck 12 of the siphon-head is the pin 13. This pin is prevented from becoming displaced by means of the screw-cap 14.

Now assuming that the handle 15 is positioned at right angles to that shown it will be readily seen that as the handle is turned the head 10 will likewise turn, and owing to the presence of the pin 13 the head 10 and stem 9 will be forced downward, thereby opening the valve covered by the head 8 and thereby allowing the contents of the bottle to flow from the curved spout B. The spring 16, which encircles the stem 9, causes the valve to close as the handle 15 is released. It will be readily seen that the normal position of the pin 13 is right at the vertex of the groove 11 and, further, that the handle can be turned in either direction when it is desired to open the valve.

On the opposite side of the base 3 from the spout B is the pipe 17, which leads to the interior of the member 5, but is isolated from spout B by the valve 8. This pipe can be readily connected to any suitable metal reservoir by means of a flexible pipe and connecting-valves.

From the description so far gone into it is manifest that the bottle can be readily refilled through the pipe 17 by first closing the valve-head 8.

In refilling ordinary siphon-bottles through the siphon-tube it is a well-known fact that the bottle cannot be completely filled, owing to the presence of air which is compressed in the upper neck of the bottle. Now in order to give a vent for this compressed air or gas I have provided the perforated screw-cap C, which engages with a nipple D, formed integral with the siphon-head. In conjunction with this screw-cap C, I have provided a perforated ring E, which is interposed between the top of the bottle and the rubber washer 4. On the opposite side of the head 3 is formed a tube F, to which is connected an ordinary

pressure-gage G. By means of this gage the pressure of the contents of the bottle may be readily observed.

I am aware that various changes in the form and construction of the several parts of my invention can be made without departing from the spirit thereof, and I therefore reserve the right to make such changes and alterations as fairly fall within the scope of my invention.

10 Having thus fully described my invention, what I claim, and desire to obtain by Letters Patent, is—

1. A device of the class described provided with a siphon-tube and a spout, a valve inter-
15 posed between said tube and said spout, a suitable handle, a valve-head, said head being formed with a V-shaped inclined groove, and a stationary pin engaging said groove substantially for the purpose set forth.

20 2. A device of the class described provided with a siphon-tube and spout, a valve interposed between said tube and said spout, a

suitable handle, a valve-head, said head being formed with a V-shaped inclined groove, a pipe leading to said tube, and a stationary pin 25 engaging said groove, substantially for the purpose set forth.

3. A device of the class described provided with a siphon-tube and spout, a pipe leading to said tube, a valve separating said spout 30 from said pipe, a perforated ring about said tube, a secondary pipe leading to said ring and formed with exterior threads, and a cap adapted to engage with said exterior threads on said secondary pipe, for the purpose set 35 forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DEWIS LANDAU.

Witnesses:

GEORGE PATTISON,
ORPHA C. POOR.