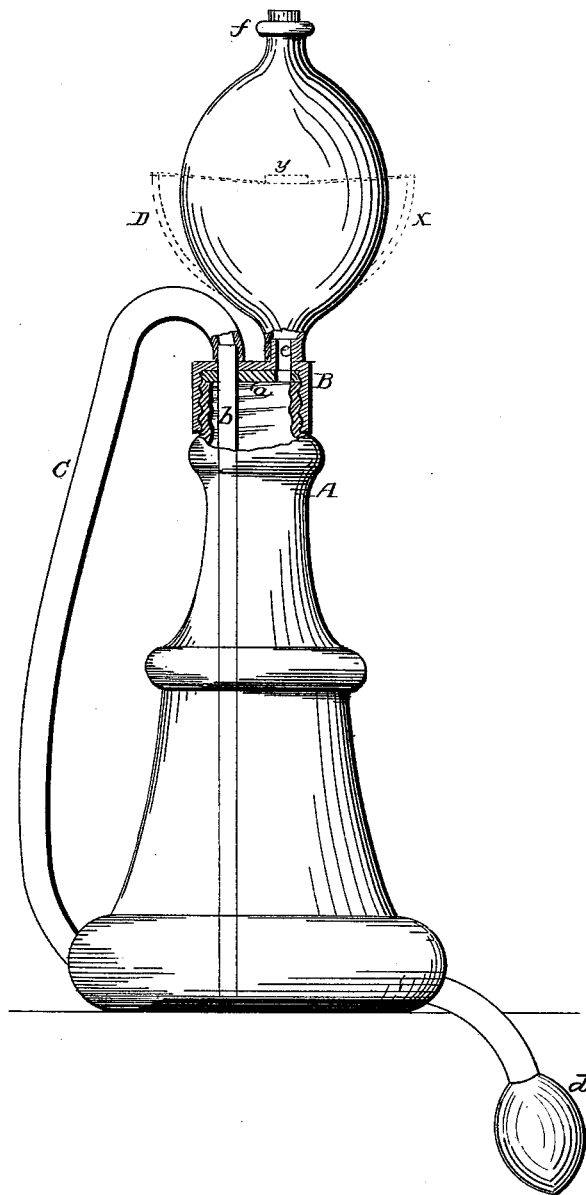


G. M. SMYSER.
Douches.

No. 196,050.

Patented Oct. 9, 1877.



Attest
Fred Benjamin
George Thom

Inventor
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By his attorney
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UNITED STATES PATENT OFFICE.

GEORGE M. SMYSER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND J. B. AGNEW, OF SAME PLACE.

IMPROVEMENT IN DOUCHES.

Specification forming part of Letters Patent No. **196,050**, dated October 9, 1877; application filed July 9, 1877.

To all whom it may concern:

Be it known that I, GEO. M. SMYSER, of the city and county of Philadelphia, State of Pennsylvania, have invented an Improved Douche, of which the following is a specification:

The object of my invention is a douche constructed, as fully described and claimed hereinafter, so as to secure a full, free, and constant discharge of the liquid without bringing the latter in contact with the valves of the pump, thereby avoiding the difficulties which, in ordinary douches, result from the clogging, wearing, and maladjustment of the valves, and from the obstruction of the outlet-pipes.

In the accompanying drawing, the figure represents an elevation, partly in section, of my improved douche.

A is a vessel, preferably of glass, but which may be of any suitable material, and of any desirable form.

In the present instance the vessel has a threaded neck, to which is adapted a screw-cap, B, carrying an elastic packing, *a*, by which the mouth of the vessel is sealed air-tight.

A tube, *b*, extends through the cap nearly to the bottom of the vessel, and to its upper end is applied the elastic discharge-pipe C, carrying at the outer end a nozzle, *d*, of the usual form.

With a hollow nipple, *e*, on the cap communicates the lower end of an elastic pump-bulb, D, having at the upper end a valve-case, *f*, containing an air-inlet valve.

The vessel A being filled with the medicinal fluid, the screw-cap is applied so that the parts occupy the position shown in the drawing, when the liquid may be expelled by alternately

compressing and releasing the bulb D, thereby forcing air into the vessel upon the surface of the liquid, which escapes through the tubes *b* C, and issues from the nozzle in a steady stream.

In douches as ordinarily constructed the liquid passes through the pump, which frequently becomes inoperative, owing to the disarrangement or wear of the valves, or because of the clogging of the same, the outlet-pipes also being obstructed by the valve-casings and valves.

It will be seen that in the above-described device the arrangement is such that no liquid passes through the pump, and that there are no valves or obstructions in the outlet-pipes to retard its flow, thereby overcoming the above objections, and insuring a much easier operation.

It will be apparent that a pump differently constructed may be substituted for the elastic bulb—as, for instance, a cup, X, (shown in dotted lines,) with an elastic covering, having an inlet-valve, *y*, at the center.

I claim—

The cap B, provided with hollow nipple *e*, and carrying the tube *b* and packing *a*, in combination with the bulb D and flexible pipe C, having nozzle *d*, all constructed for application to the neck of the bottle A, as set forth.

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

GEO. M. SMYSER.

Witnesses:

M. J. MCGURK,
WHARTON BARTLETT.