(No Model.)

P. CHAPELAIN.

ATOMIZER.

No. 275,997. Patented Apr. 17, 1883.

Fig. 1

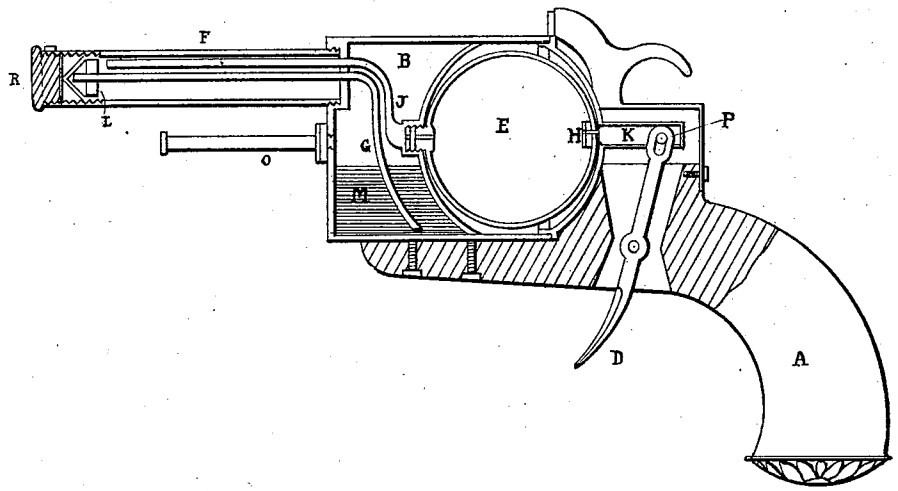
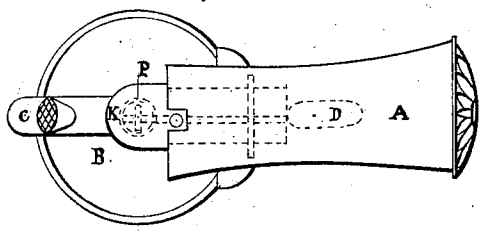


Fig. 2



Witnesses

Inventor

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UNITED STATES PATENT OFFICE.

PAUL CHAPELAIN, OF PARIS, FRANCE.

ATOMIZER.

SPECIFICATION forming part of Letters Patent No. 275,997, dated April 17, 1883.

Application filed November 9, 1882. (No model.) Patented in France September 16, 1882, and in England October 11, 1882, No. 4,826.

To all whom it may concern:

Be it known that I, PAUL CHAPELAIN, a citizen of France, residing at Paris, in the French Republic, have invented certain new and useful Improvements in Vaporizers; 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, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form part of this specification.

The atomizer or vaporizer the subject of the present invention is constructed in the form of a revolving pistol, the parts composing the same being so constructed and arranged that a simple and efficient device for spraying or atomizing liquid is produced, while at the same time it shall have a highly ornamental and pleasing appearance.

The invention consists, first, in the combination, in an atomizer having the form of a revolving pistol, of a barrel-chamber, an air-ball acted on by a shaft and trigger, and an air-conducting tube communicating with the air-ball, as hereinafter more fully described; second, in the combination, in an atomizer having the form of a revolving pistol, of a liquid-conducting tube, a reservoir, and a ramrod-stopper, all as hereinafter more fully described.

In the annexed drawings, Figure 1 is a section of a vaporizer embodying my invention, and Fig. 2 is an end view thereof.

The handle A, which is made of any suitable material, may be of any desired form and ornamented as taste may dictate. The barrel-chamber B, at the fore part, serves as recipient for the scent, and at the rear an india-rubber ball, E, is lodged, whose object will hereinafter be mentioned.

The cock C is the same as that of an ordinary revolver; but it may be either fixed or movable, as desired, and in the latter case its motion does not differ from that of a revolver-cock, which is actuated by the trigger D, and which latter, when the cock is stationary, sets in motion a shaft, K, to which the trigger is articulated by a pin, P, and forces the shaft, when the trigger is drawn, to press against the india-rubber ball E, above named, which is fixed inside the barrel-chamber B. The action of this shaft on the ball is similar to the pressure exercised in the ordinary vaporizers—that is to say, it serves to draw in the external air and force it in the apparatus.

The fore part, F, or barrel, is traversed longitudinally with an air-conducting tube, J, receiving the air drawn and expelled by the india-rubber ball E and leads it to the end or muzzle of the barrel. This part of the pistol also bears a tube, G, for conducting the liquid, one end of which plunges in the scent-reservoir M and the other enters the air-chamber L.

H is a valve for the admission of air. The perfumed liquid is introduced inside the barrel through an aperture made beneath the barrel F, which is closed with a key simulating a ramrod, O.

M is the reservoir of the liquid perfume. L is the air-chamber at the muzzle end of the barrel F, and in which the end of the tube G enters.

R is a screw-cap closing the mouth of the pistol to prevent any escape of liquid in carrying the vaporizer in the pocket.

I claim as my invention—

1. In an atomizer having the form of a revolving pistol, the combination of the barrel-chamber B, air-ball E, acted on by the shaft K and trigger D, and the air-conducting tube J, communicating with the air-ball, substantially as and for the purpose described.

2. In an atomizer having the form of a revolving pistol, the combination of the liquid-conducting tube G, reservoir M, and ramrod-stopper O, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

PAUL CHAPELAIN.

Witnesses:
ROBT. M. HOOPER,
G. HÈLERÉ.