

No. 653,866.

Patented July 17, 1900.

S. HEIMAN.
POCKET ATOMIZER.

(Application filed Nov. 20, 1899.)

(No Model.)

Fig. 1.

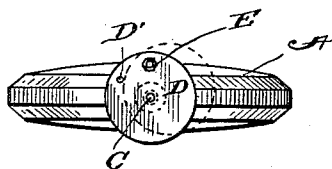


Fig. 2.

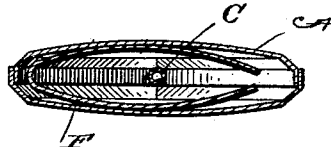


Fig. 3.

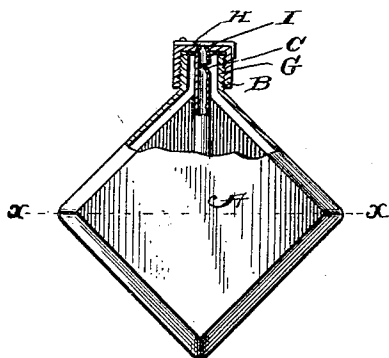


Fig. 4.

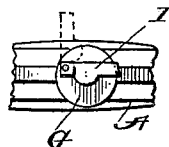
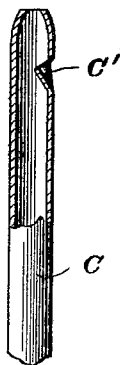


Fig. 5.



Witnesses

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POCKET-ATOMIZER.

SPECIFICATION forming part of Letters Patent No. 653,866, dated July 17, 1900.

Application filed November 20, 1899. Serial No. 737,614. (No model.)

To all whom it may concern:

Be it known that I, SOLOMON HEIMAN, a subject of the Czar of Russia, residing at Little Falls, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Pocket-Atomizers, of which the following is a specification.

This invention relates to pocket-atomizers, and has for its object to produce a simple but efficient atomizer of this class.

The invention consists in certain novel and useful features, which are hereinafter fully described.

Referring to the accompanying drawings, Figure 1 is a plan view of an atomizer which embodies my invention. Fig. 2 is a cross-section through line *xx*, Fig. 3. Fig. 3 is a side elevation of the atomizer, partly in section, showing a slightly-different form of shield from that shown in Fig. 1. Fig. 4 is a plan view of the shield shown in Fig. 3. Fig. 5 is an enlarged detail view of the delivery-tube.

Similar letters refer to similar parts throughout the several views.

A represents the body of the atomizer, which is composed of two halves made of sheet metal of such thickness as to be capable of being compressed by the fingers. In order to increase the degree of compression of the two halves, the central portion of each half is made slightly convex outwardly.

B represents the neck of the atomizer.

F represents a flat spring located between the two halves forming the body of the atomizer and which is adapted to exert a pressure on the sides of the atomizer for the purpose of compelling the sides to expand after they have been compressed.

The delivery-tube is secured to a screw-cap G, the neck of the atomizer being in that construction provided with exterior screw-threads, with which the said cap engages. Interposed between the cap and neck is a packing H. Pivotaly secured on the upper surface of the cap is a shield I, by which the opening of the delivery-tube may be either covered or exposed, as shown by the dotted lines in Fig. 5.

In using the device the shield is moved until the opening in the delivery-tube is exposed. The sides of the atomizer are then compressed by the fingers, which causes the liquid in the atomizer to be ejected and at the contracted opening of the delivery-tube mix with some air which simultaneously escapes through the air-passage in the tube. The liquid will thus be discharged in a fine spray.

What I claim as new, and desire to secure by Letters Patent, is—

In an atomizer, a compressible body having an exteriorly-threaded neck, an interiorly-threaded cap for the neck, a delivery-tube having an upper contracted end portion which is rigidly secured to the central portion of the cap and extending through the top thereof, said delivery being provided with a slit or opening forming an air-duct adjacent to its upper end portion, combined with a pivoted cover on top of the cap, said cover being adapted to alternately cover and expose the contracted end portion of the delivery-tube, substantially as described.

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