

Sept. 13, 1932.

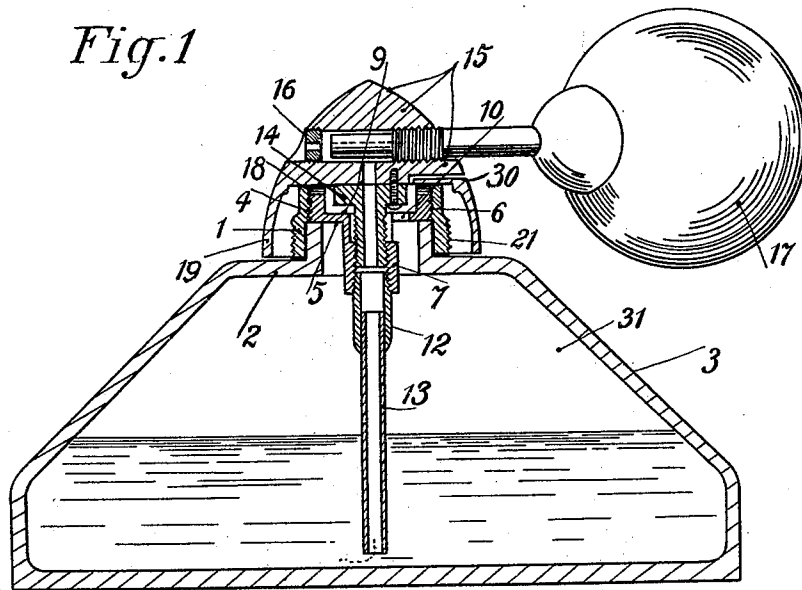
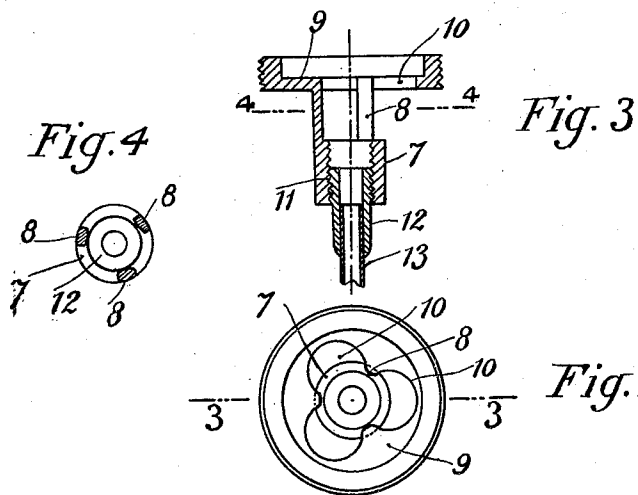
J. PATOU

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ATOMIZER

Filed May 4, 1931

2 Sheets-Sheet 1



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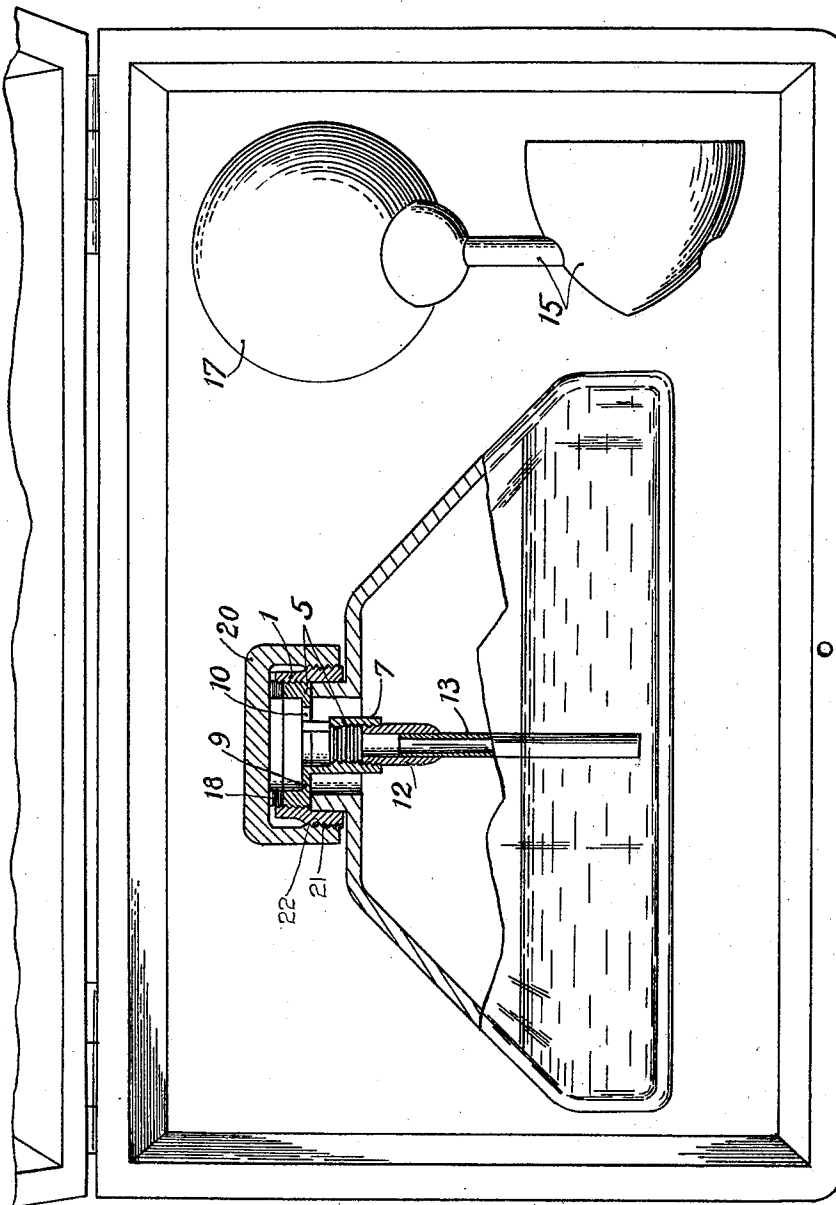
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Fig. 5



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ATOMIZER

Application filed May 4, 1931, Serial No. 534,900, and in France March 21, 1931.

The object of the present invention is to facilitate the transport of scent flasks having removable atomizing or spraying contrivances, more especially with a view to avoiding breakage of the dipping tube and of reducing to a minimum the bulk of the contrivance during transport.

Another object is to provide a scent atomizer or sprayer in which the dipping tube is a fixture in and is protected by the flask. A further object is to enable the flask to be easily filled notwithstanding the presence of the securing means for the dipping tube.

An atomizer or sprayer adapted to fulfil the above objects has the features set forth in the following description and in the claims at the end of such description.

The preferred form of the invention is illustrated by way of example in the accompanying drawings, in which:—

Fig. 1 is a central vertical section of the entire atomizer and flask.

Fig. 2 is a plan of the tube mounting.

Fig. 3 is a section on the line 3—3 of Fig. 2.

Fig. 4 is a section on the line 4—4 of Fig. 3.

Fig. 5 is a view partly in section showing the atomizer and scent flask arranged for transport.

The atomizer comprises a flask 3 for containing a liquid, for example scent, on the neck 2 of which is secured a mounting 5 supporting a tube 13 dipping into the liquid.

The mounting 5 can receive alternately an atomizing contrivance (Fig. 1), or a closure cap 20 (Fig. 5) to enable scent for example to be transported.

For this double purpose, the mounting 5 is mounted on the neck 2 of the flask by the intermediary of a sleeve 1 secured with the aid of a cement joint, for example, on the neck 2. This sleeve 1 is internally screw-threaded at 4 to receive therein a screw-threaded portion 6 of the mounting 5.

The mounting 5 is extended at its lower portion to form a socket 7 which is connected to the base 9 of the mounting by webs 8. Apertures 10 are provided in the base 9 of the mounting to enable the flask to be filled

without unscrewing the mounting 5 from the sleeve 1.

The socket 7, which is internally screw-threaded at 11, serves in part to support the dipping tube 13. For this purpose the dipping tube 13, which is preferably of glass, is held at its upper end in a lead joint sleeve 12, itself screwed into the lower portion of the sleeve 7.

The sleeve 7 may also removably receive the atomizing contrivance. For this purpose this contrivance comprises a hollow boss 14, which screws into the upper portion of the socket 7. This socket thus ensures the interconnection of the tube and the atomizing contrivance, for the purpose of spraying the liquid (Fig. 1). A washer 18 of yielding material is interposed between the head 15 of the atomizing contrivance and the mounting 5 to prevent escape of perfume between the mounting 5 and the atomizing contrivance.

The atomizing contrivance comprises the boss 14 and head 15, referred to above, an ejector 16 and an air blast bulb 17 mounted in the head of the contrivance. This head of ogival shape has a skirt or flange 19 surrounding neck 2 of the flask 3 and the sleeve 1 so that the entire atomizer has no sharp projecting edges. The atomizing contrivance has a small passage 30 opening at one end into the atmosphere and at the other end, beyond the washer 18, into the space between the boss 14 and the mounting 5. Air admitted through the passage 30 passes through the apertures 10 into the interior 31 of the flask, which ensures that a sufficient pressure is maintained therein and in consequence effective aspiration of the scent by the tube 13.

The atomizer according to the invention presents many advantages. In particular it is very useful for persons who travel frequently, for when it is desired to put the atomizer in a travelling bag, for example, it is sufficient to unscrew the atomizing contrivance and replace it by a closure cap such as 20 formed with a screw-thread 22, (Fig. 5) matching the external screw-thread 21 of the sleeve 1 (Fig. 1). In this manner the atomizing contrivance can be packed to

occupy a minimum of space in the travelling bag. Moreover, the dipping tube 13, which is completely separate from the atomizing contrivance and which remains within the flask 3, stands no risk of becoming broken. Once closed by the cap 20, the atomizer becomes an elegant flask tightly sealed owing to the washer 18 intervening between the cap 20 and the mounting 5.

Another advantage of this atomizer resides in the ease with which it can be refilled. To do this, it suffices to unscrew the atomizing contrivance. The scent can then be introduced into the flask 3 without it being necessary to dismount the mounting 5, since the liquid can flow in through the apertures 10 and the gaps between the webs 8.

To sum up, by the invention a liquid-tight atomizer easy to refill and adapted for travelling, is provided, as the atomizing contrivance can be packed separately whilst the dipping tube remains in the flask, which avoids any risk of breaking the tube and reduces to a minimum the bulk of the transported atomizer.

I claim:

An atomizer comprising a flask having a neck and adapted to contain a liquid such as perfume, a mounting secured to said neck, webs carried by said mounting and having orifices for the free passage of liquid into the flask, a socket connected by the webs to said mounting, a tube supported by said socket and extending into the flask, and a vaporizer assembly adapted to receive perfume through said tube, said vaporizer assembly being removably mounted in said socket while said tube remains mounted therein.

In testimony whereof I have signed this specification.

JEAN PATOU.

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