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PATENTED AUG. 6, 1907.

A. SHAPIRO.
DAMPENER.

APPLICATION FILED FEB. 14, 1907.

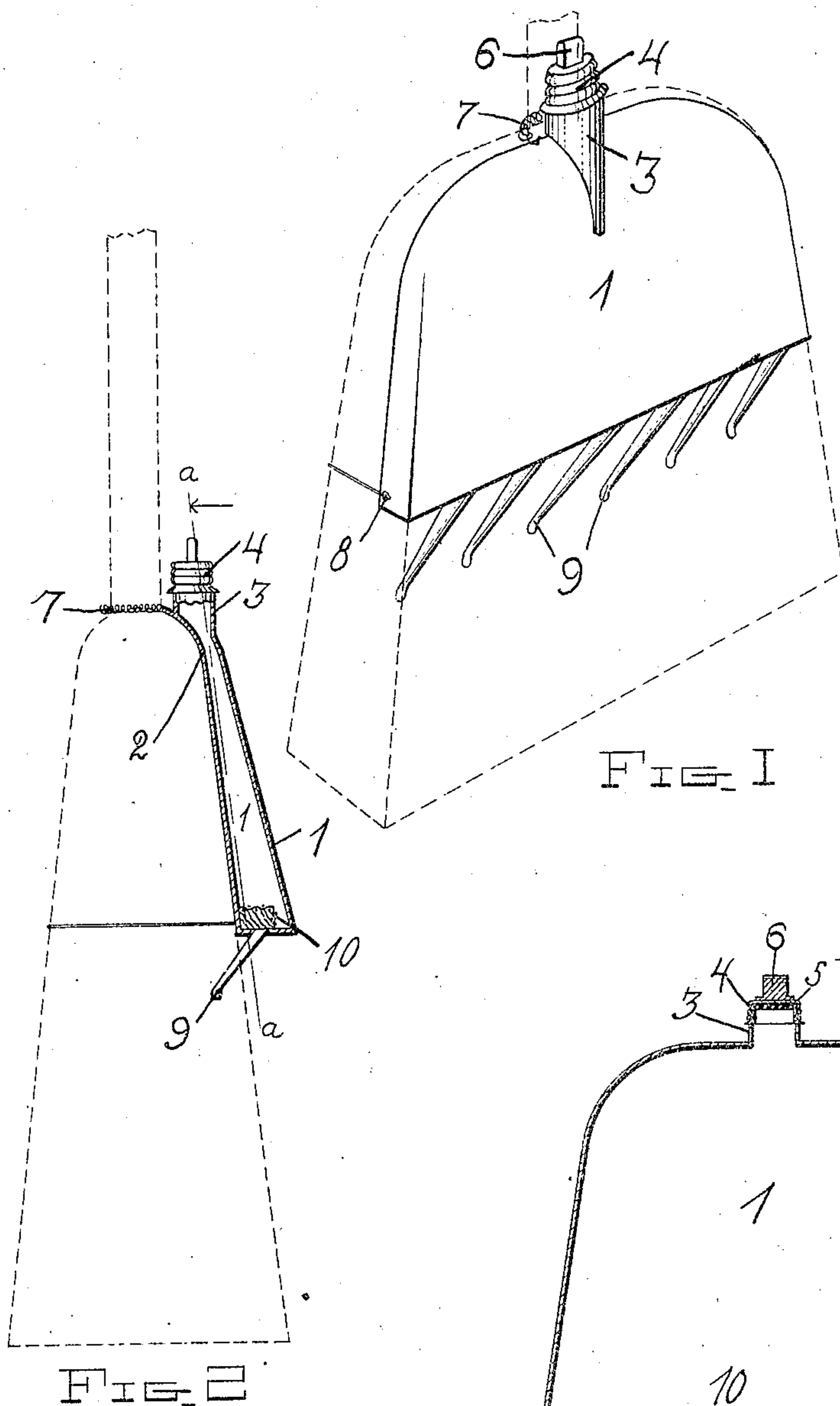


FIG. 1

FIG. 2

FIG. 3

Witnesses
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UNITED STATES PATENT OFFICE.

ABRAHAM SHAPIRO, OF CHIPPEWA FALLS, WISCONSIN.

DAMPENER.

No. 862,287.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ABRAHAM SHAPIRO, a citizen of the United States, residing at Chippewa Falls, in the county of Chippewa and State of Wisconsin, have invented certain new and useful Improvements in Dampeners; and I do 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.

My invention is an improved dampening device for use in connection with a broom or brush to supply the latter with water or oil when in use, and hence avoid raising a dust; and it consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings,—Figure 1 is a perspective view of a dampener embodying my invention, showing the same applied to a broom, the latter being indicated in outline in dotted lines; Fig. 2 is a vertical sectional view of the same, in which view also the broom is indicated in dotted lines; Fig. 3 is a detail sectional view taken on the plane indicated by the line *a—a* of Fig. 2.

In the embodiment of my invention, I provide a reservoir 1 to contain water or oil and which is here shown of a size and shape to correspond with the upper end of a broom, and is hollowed on one side, as at 2, to enable it to fit against the broom head and to lie closely thereto. On the outer side of the reservoir at its top is an inlet 3, provided with a screw cap 4, which screw cap has a packing 5, and it is provided on its upper side with a thumb piece 6 by which it may be readily turned. When partly opened from the inlet 3, the said screw cap admits the air in a sufficient quantity to the reservoir to facilitate the passage of liquid therefrom. At the upper side of the reservoir at its center is an attaching bail 7 to pass around the broom handle. The said attaching bail is formed of a coiled spring which adapts it to tightly compress the broom handle and to closely secure the upper portion of the reservoir to the upper

portion of the broom. At the lower corners of the reservoir are eyes 8 to which a cord is attached, the said cord being also passed around the broom to secure the lower portion of the reservoir closely thereto. From the lower side of the reservoir project a series of laterally-inclined, downwardly-tapering nozzles 9, which enter between the straws of the broom and become embedded in the broom and serve to conduct oil or water to the interior of the broom and cause the same to pass downwardly on the straws and keep the broom dampened to a sufficient extent to prevent the broom from raising a dust when the broom is in use.

To prevent the oil or water from passing too freely from the reservoir I provide in the bottom thereof a foraminous casing 10, which is filled with raw cotton or other suitable absorbent material, through which the water or oil must pass before reaching the nozzles, the said absorbent material becoming saturated with the water or oil and causing it to be supplied in very small quantities to the nozzles.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters-Patent, is:—

A dampener for attachment to a broom or brush head comprising a reservoir having its rear face concaved to fit the broom head, an elastic attaching bail carried by the reservoir and adapted to embrace the broom handle, downwardly and rearwardly inclined discharge nozzles to be embedded in the fibers of the broom or brush head, and a foraminous casing disposed over the upper ends of the nozzles and containing an absorbent material, for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ABRAHAM SHAPIRO.

Witnesses:

L. A. BAKER,
A. F. BRYCE.