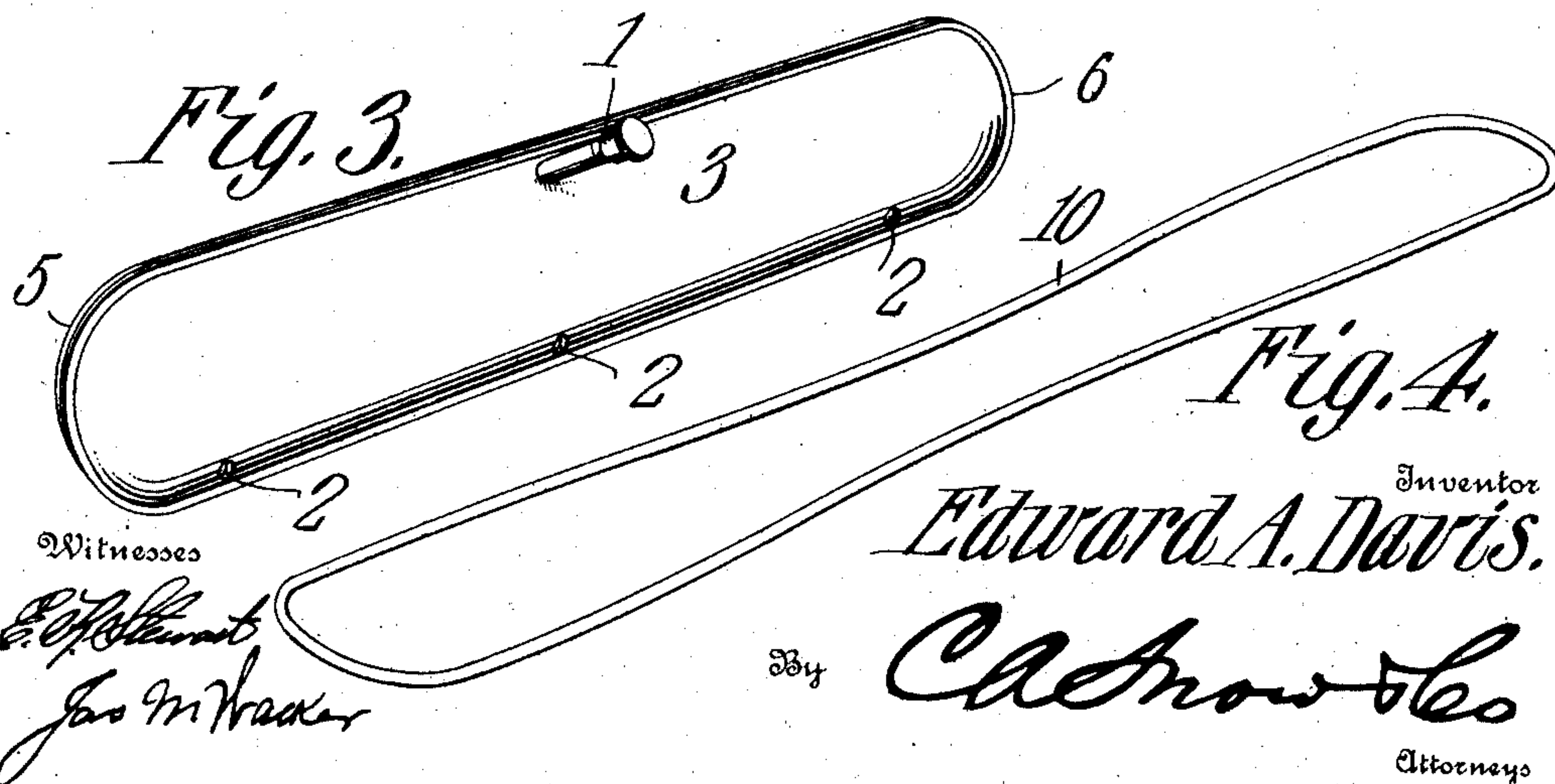
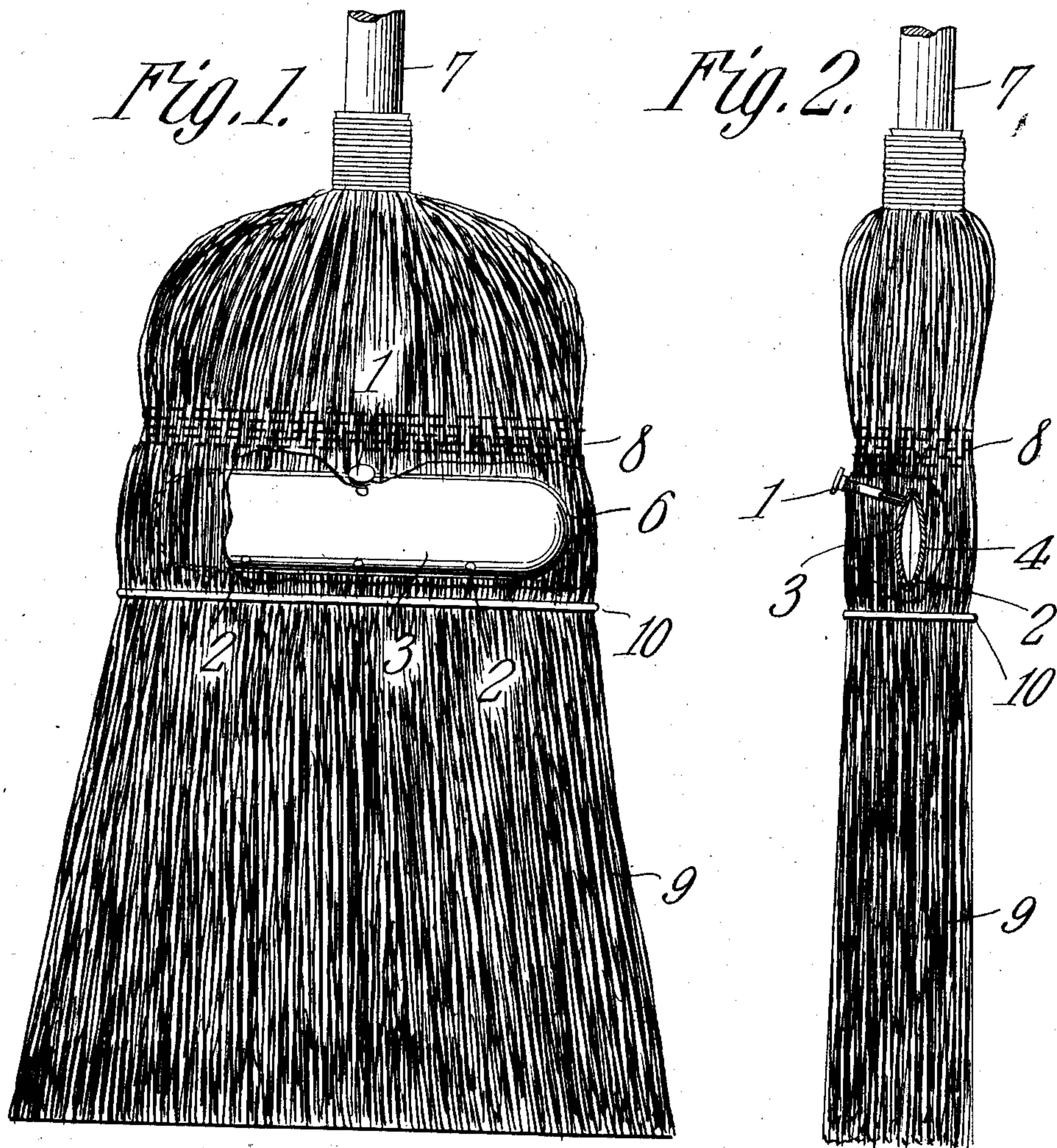


No. 883,175.

PATENTED MAR. 31, 1908.

E. A. DAVIS.
DUST SETTLER FOR BROOMS.
APPLICATION FILED AUG. 6, 1907.



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UNITED STATES PATENT OFFICE.

EDWARD ALLEN DAVIS, OF NEW ORLEANS, LOUISIANA.

DUST-SETTLER FOR BROOMS.

No. 883,175.

Specification of Letters Patent.

Patented March 31, 1908.

Application filed August 6, 1907. Serial No. 387,341.

To all whom it may concern:

Be it known that I, EDWARD ALLEN DAVIS, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Dust-Settler for Brooms, of which the following is a specification.

This invention relates to attachments for brooms and more particularly to devices of this character designed to minimize dust during the sweeping operation by distributing moisture upon the surface being swept, the moisture distributing means being removably mounted within a broom and retained in a novel and efficient manner.

To these and other ends, the invention comprises the various novel features of construction and combination and arrangement of parts, which will be hereinafter more fully described and pointed out particularly in the appended claims.

In the accompanying drawings:—Figure 1 is a front elevation of a broom having a portion broken away to show the dust settler applied thereto. Fig. 2 is an edge view of the broom shown in Fig. 1, a portion thereof being broken away to show the dust settler. Fig. 3 is a perspective view of the dust settler removed from the broom. Fig. 4 is a perspective view of the band or retainer.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The dust settler shown in the present embodiment of the invention embodies a relatively long and flat receptacle, which is adapted to serve as a reservoir to contain and distribute the dust settling liquid or other medium, it being provided toward its upper side with a filler opening 1 and a suitable number of discharge orifices 2 at its lower edge through which the liquid escapes and reaches the broom straws.

The receptacle may be made in any suitable way, that shown in the present instance being composed of a pair of concave sections 3 and 4 which are curved slightly on the minor diameter of the receptacle, and have their opposite ends curved inwardly to form tapered ends for the receptacle when the sections are placed together with their concaved sides facing one another, the sections being secured in coöperative relation either by folding their edges to form a liquid tight seal, or they may be soldered. In order to facilitate application of the receptacle to the brush

portion of the broom, the opposite edges at the ends of the receptacle are also curved, as at 5 and 6. The dust settler thus provided may be applied to any desired portion of the brush part of the broom, it being shown in the present instance as applied to that portion of the broom between the lower end thereof and the rows of stitching 8 which bind the straws 9 closely together, the receptacle being applied after it has been filled with the dust settling liquid or medium, and in such a way that the filler opening 1 occupies a position toward the upper edge of the receptacle while the discharge orifices 2 are adjacent to its lower edge, the liquid, such as an oil of the proper consistency, escaping slowly through the discharge orifices and descending the inner straws of the broom, the oil or other liquid thus reaching the dust and moistening it sufficiently to prevent its rising during the sweeping operation.

In order to prevent the reservoir or receptacle gravitating toward the lower end of the broom during the sweeping operation, it is preferable to provide a retainer that will support it in the proper position, the retainer shown in the present embodiment of the invention embodying a band of resilient wire or other suitable material 10 conforming approximately to the cross sectional shape of the broom and is adapted to be applied to the broom straws from the handle, the band being of such a size that it will compress the straws sufficiently to bind the reservoir and thereby prevent dislocation thereof.

Of course, the amount of dust or dirt to be swept or conducted varies in different cases, and in order to enable the liquid distributor to accommodate itself to the circumstances of each particular case, it is preferable to so apply it to the broom that it may be easily removed therefrom when the broom is well supplied with the settling liquid, and there is very little dust to be collected, while, in other cases, the amount of oil or dust settling liquid discharging from the receptacle may be regulated by practically closing the discharge orifices with a suitable substance such as wax or soap.

A dust settler constructed in accordance with the present invention is capable of being manufactured very cheaply and is adapted to be employed interchangeably on brooms, brushes, and analogous devices of various forms, and, in practice, it serves to distribute the dust settling liquid or medium to the in-

ner straws of the broom so that the oil or liquid employed cannot soil the clothing and other articles, while it serves to effectually dampen or moisten the dust as it is reached
5 by the broom and thus prevent its rising.

What is claimed is:—

The combination with a broom head; of an attachment therefor comprising a receptacle removably mounted within and inclosed by
10 the head, said receptacle having an inlet and an outlet, and a resilient band surrounding

the head and clamping it about the receptacle to hold said receptacle against displacement, said band being detachable from the head.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EDWARD ALLEN DAVIS.

Witnesses:

JOSEPH SERRANO, Jr.,
C. S. GANT.