No. 809,991. PATENTED JAN. 16, 1906.

F. SHERIDAN.

DUSTLESS ATTACHMENT FOR BROOMS.

APPLICATION FILED JULY 7, 1905.

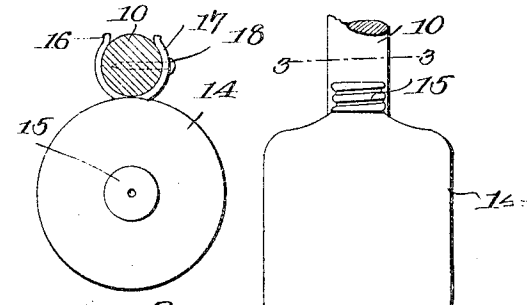
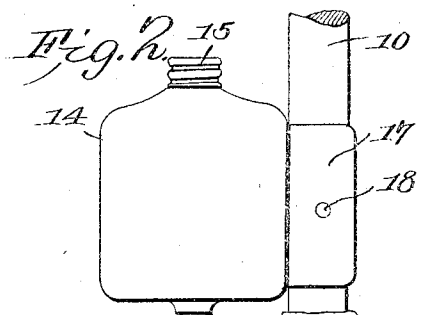


Fig. 3.

Fig. 2.



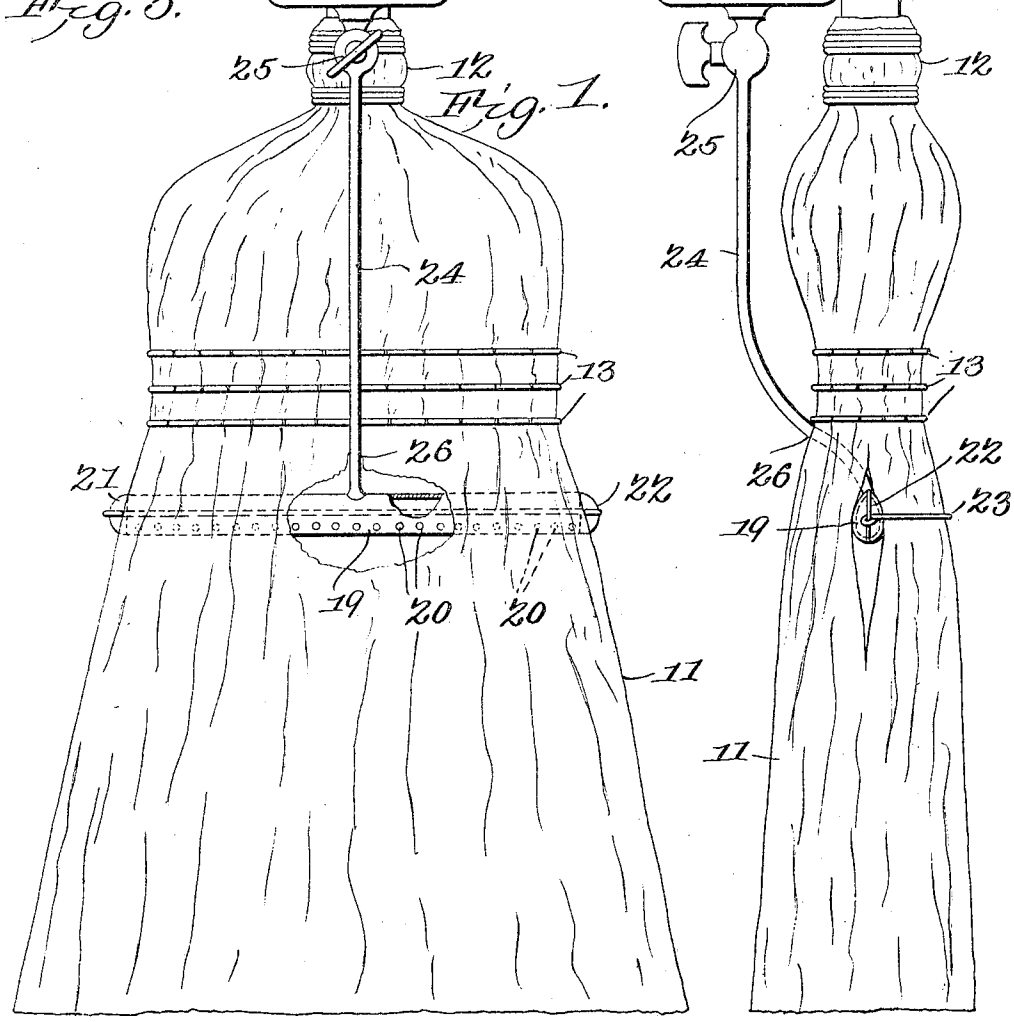
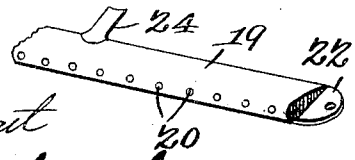


Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

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DUSTLESS ATTACHMENT FOR BROOMS.

No. 809,991. Specification of Letters Patent. Patented Jan. 16, 1906.

Application filed July 7, 1905. Serial No. 268,761.

To all whom it may concern:

Be it known that I, FRANK SHERIDAN, a citizen of the United States, residing at Anamosa, in the county of Jones and State of Iowa, have invented a new and useful Dustless Attachment for Brooms, of which the following is a specification.

This invention relates to attachments to brooms designed to prevent the rising of dust while sweeping, and has for its object to improve the construction and increase the efficiency of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the invention consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that various changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention within the scope of the appended claims.

In the drawings, Figure 1 is a front view, and Fig. 2 is an edge view, of the brush portion of a broom and a portion of the handle with the improvement applied. Fig. 3 is a transverse section of the handle on the line 3 3 of Fig. 1 and a plan view of the tank.

The improved device may be readily applied to any of the ordinary constructions of brooms and to brooms of any size, and for the purpose of illustration is shown applied to a conventional broom formed with the handle 10, fiber portion 11, connected at 12 to the handle and supported by the lacings 13.

The improved attachment consists of a reservoir or tank 14, having means, such as an orifice covered by a screw-cap 15, for supplying water or other liquid and with spaced resilient wings 16 17 for engaging the handle 10 and supporting the reservoir 14 in position thereon. A tack, screw, or the like 18 may be inserted through the wings 16 or 17 into the handle 10, if required, to increase the surety of the connection and obviate danger of displacement while in use.

Disposed transversely of the brush end of the broom and embedded within its fibers parallel to its longer axis is a spraying member consisting of a tube 19, formed with the upper side wedge-shaped to facilitate the insertion among the broom fibers and with spaced discharge-orifices 20. Extending from the ends of the spraying member 19 are ears 21 22, having transverse perforations and adapted to receive the ends of a tie-wire 23, the latter extending over the broom fibers at one side and firmly clamping the spraying member in position. Extending between the reservoir 14 and the spraying member 19 is a feed pipe or conductor 24, having a controlling-valve 25, the pipe being curved to conform to the location of the spraying member among the broom fibers.

To attach the device to a broom, the fibers are separated at the lower or brush end and the spraying member 19, with the pipe 24 and reservoir 14 attached, inserted therein and forced toward the handle end until the member 19 is relatively close to the lacings 13, which will bring the reservoir 14 opposite the handle 10 just above the fastening portion 12 and with the pipe 24 projecting through the mass of the fibers at the center, as at 26. The resilient wings 16 17 are then forced over the handle and secured by the tack or other similar means, if required.

With a device thus constructed and applied and the reservoir supplied with water or other suitable liquid and the valve 25 opened to the required extent finely-divided spray-like streams of the liquid will be discharged into the interior of the mass of the broom fibers and thoroughly dampen the same, so that as the sweeping action occurs the dust will be correspondingly dampened and prevented from rising. The liquid is thus applied entirely within the mass of the fibers and uniformly distributed therethrough, so that every individual "straw" receives an equal proportion, with the result of a correspondingly uniform action upon the dust and other sweepings.

Any required liquid may be employed in the device or any compound or solution, such as water, oil, disinfectant compounds, or the like.

When a broom is worn out, the device may be quickly transferred to a new broom, or the device may be quickly attached to or detached from the broom, if required.

Having thus described the invention, what is claimed is—

1. A device of the class described comprising a reservoir having spaced resilient wings

adapted to engage the handle of a broom, a tubular spraying member adapted to be embedded among the fibers of the broom and provided with a plurality of spaced orifices for the escape of the liquid, and a feed-pipe between the reservoir and spraying member.

2. A device of the class described comprising a reservoir having means for detachably connecting to the handle of a broom, a tubular spraying member with the upper side in wedge form to facilitate the insertion among the fibers of the broom, and provided with a plurality of spaced orifices, and a feed-pipe between the reservoir and spraying member.

3. A device of the class described comprising a reservoir having means for detachably connecting to the handle of a broom, a tubular spraying member adapted to be embedded among the fibers of the broom and provided with spaced discharge-orifices and with perforated ears extending from the ends, a feed-pipe between said reservoir and spraying member, and a tie-wire attached at the ends in the perforated ears and extending around the brush portion of the broom.

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Witnesses:
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