Dec. 18, 1934. A. OZDOBINSKI 1,984,491

DUSTPAN ATTACHMENT FOR BROOMS

Filed April 10, 1934

Fig. 1.

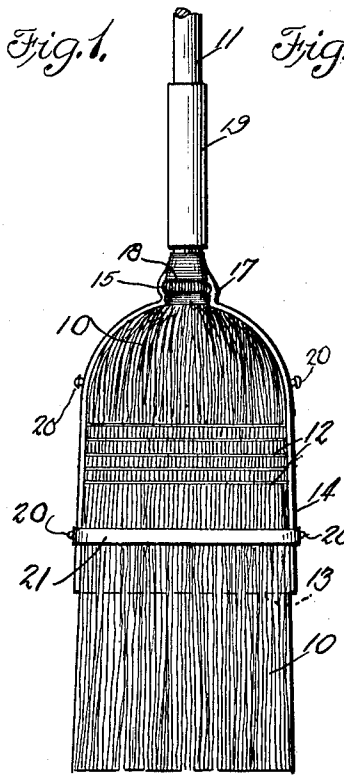


Fig. 2.

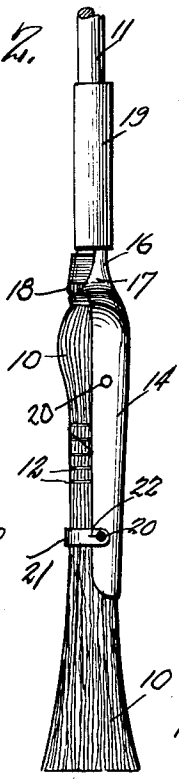


Fig. 3.

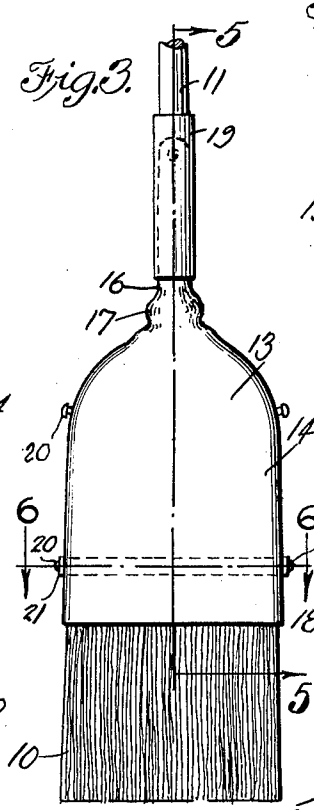


Fig. 5.

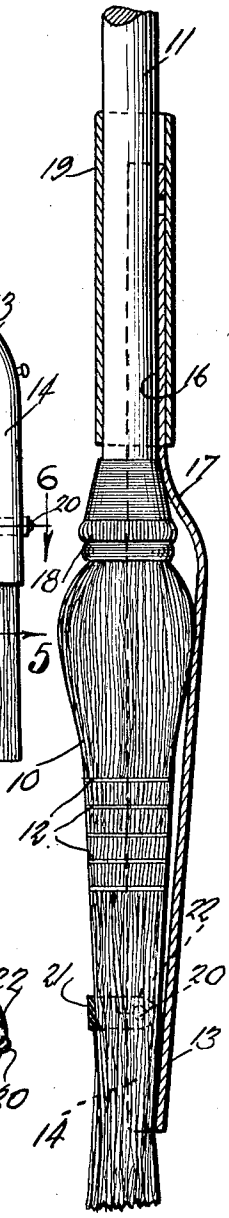


Fig. 4.

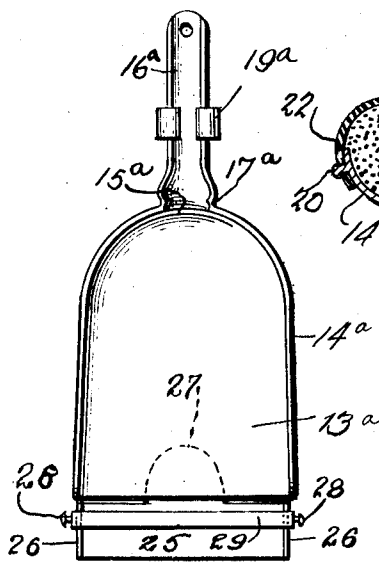


Fig. 6.

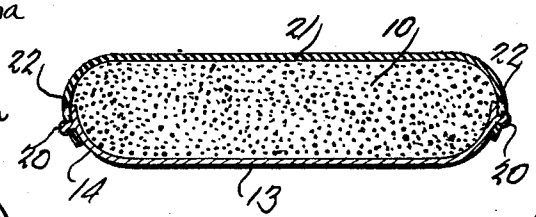
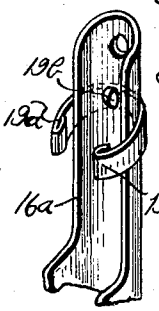


Fig. 7.



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UNITED STATES PATENT OFFICE

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DUSTPAN ATTACHMENT FOR BROOMS

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4 Claims. (Cl. 65—62)

This invention relates to brooms and the like and has special reference to an attachment for brooms.

One important object of the invention is to provide a novel attachment for brooms which may be readily detached to form a dust pan.

A second important object of the invention is to provide a novel attachment for brooms which, when on the broom, will serve to keep it in proper form.

A third important object of the invention is to provide a novel dust pan attachment for brooms which, when attached, serves to stiffen the broom head so that it may be used for very heavy sweeping.

A fourth important object of the invention is to provide novel means for detachably securing the attachment to a broom.

A fifth important object of the invention is to provide an elastic tubular member slidable over the handle of a broom and to be placed in frictional inclosing relation to the handle of a dust pan that has its body portions engaged with the head of the broom.

A sixth important object of the invention is to provide a novel attachment of this kind which may be used to secure a dust cloth over the broom head so that the broom may be used on polished floors, side walls, ceilings, and the like.

With the above and other objects in view, the invention consists in general of certain novel details of construction and combination of parts hereinafter fully described, illustrated in the accompanying drawing, and specifically claimed.

In the accompanying drawing like characters of reference indicate like parts in the several views, and:—

Figure 1 is a side elevation of a broom head and the lower part of the broom handle and showing the attachment applied.

Figure 2 is an edge elevation of the parts as shown in Figure 1.

Figure 3 is a view similar to Figure 1 but taken from the opposite side.

Figure 4 is an elevation of the attachment showing another form of attaching means for the broom.

Figure 5 is an enlarged detail section on the line 5—5 of Figure 1.

Figure 6 is an enlarged section on the line 6—6 of Figure 1.

Figure 7 is a fragmentary perspective view of a dust pan handle with the form of broom handle attachment shown in Figure 4.

In the drawing illustrating this invention there is shown a broom head 10 which is secured in the usual manner to a handle 11 and is provided with the commonly used bridle threads or wires 12. As is usual in such cases the bridle causes the broom head to be thinner at this part than the part above the bridle where there is a considerable bulging outward of the broom straws as well shown in Figures 2 and 5.

The attachment consists of a dust-pan body 13 of general scoop shape. That is, the top or back part of the body is of substantially semi-circular form in elevation as shown in Figure 4 and the side and top edges 14 are curved forwardly from a flat bottom. It will, however, be seen that a restricted neck 15 is provided between the edges at the top. The handle 16 is of semi-circular shape in cross-section and opens into the body at the neck 15. Just above the neck 15 the handle is provided with an enlarged portion 17 which fits the neck 18 of the broom and thus, when the dust-pan is on the broom, assists in preventing up or down movement of the pan relative to the broom.

Mounted on the handle 11 is a tubular slide 19 of rubber, elastic or rigid material and of proper diameter to surround the dust-pan handle 16 and hold it firmly against the broom handle 11 when the slide is slid down on the handle 11 as best shown in Figure 5, the tubular slide 19 frictionally inclosing the broom and dust-pan handle and so restrained from relative sliding movements. Obviously, when the slide 19 is slid up on the handle 11 the handle 16 is left free. The lower parts of the sides 14 are provided with one or more sets of oppositely disposed buttons 20 and a strap 21 having button-holes 22 adjacent its ends is selectively attached to the buttons 20 over the broom head as shown in Figures 1 and 6 so that the broom head and lower part of the pan are held securely but detachably together and the dust-pan properly balanced on the broom.

When the dust-pan is in position on the broom as shown in such figures as 1 and 2 it serves to hold the broom head properly from spreading or fraying out and thus prolongs the effective life of the broom. Moreover, when thus arranged the dust-pan stiffens the broom head so that it may be used for heavy sweeping. By supporting the dust-pan on the broom head the latter is always convenient for use during sweeping operations. Also, it will be obvious that a dust-cloth may be placed over the end of the broom head and have its ends clamped by the strap 21 and the body of the pan so that the broom may be used on polished floors, walls, and the like. Finally, the dust-pan may be detached when de-

sired and used in the ordinary manner in which such devices are used.

In the form of dust-pan attachment for brooms as shown in Figure 7, the handle 16*a* of the dust-pan carries a substantially U-shaped spring clip 19*a* transversely of its outer ends and secured thereto as at 19*b*. The curved handle 16*a* is engaged with the broom handle 11 and the spring clip 19*a* resiliently embraces the broom handle for the retention of the dust-pan on the broom, aided by the strap 21.

As shown in Figure 4, a dust-pan handle 16*a* that carries the spring clip 19*a* is fashioned at 15*a* and 17*a*, similar to corresponding parts shown in Figures 1 to 3 for mating assembly with the broom head 10 and in lieu of the button and strap connection 20 and 21 between the dust-pan body and broom head there is provided an attachment plate and strap. The dust pan body 13*a* is provided with the side walls or flanges 14*a* that receive the broom head 10 and in addition to the spring clip 19*a* for retaining the dust pan in assembled relation on the broom head and handle, there is provided a metallic strap 25 having curved ends 26 for engagement with the same side of the broom head 10 as the dust-pan body 13*a* and said strap 25 intermediate its ends carries an upwardly directed tongue 27 that overlies the lower end of the dust-pan body 13*a*. Each curved end 26 of the metallic strap 25 carries a button 28 to which the ends of an elastic band 29 are connected. The metallic strap 25 with its projecting tongue 27 insures proper placement of the lower end of the dust pan body 13*a*.

There has thus been provided a novel and practical device of the kind described and for the purpose specified.

It is obvious that changes may be made in the form and construction of the invention without departing from the material principles involved. It is not, therefore, desired to confine the invention to the exact form herein shown and described but it is desired to include all such as properly come within the scope claimed.

I claim:—

1. A dust pan adapted to be attached to a broom head and its handle; said dust-pan having a body portion partially enclosing the upper part of the broom head and a handle portion partially enclosing the broom handle, said dust-pan having a portion at the juncture of the handle and body enlarged to fit the neck portion of the broom head, the enlarged portion provided with a restricted neck adjacent the dust pan body whereby the dust-pan is hindered from longitudinal movement relative to the broom head, a tubular slide on the broom handle movable toward the broom head to engage over the dust-pan handle to hold the latter against the broom handle, and detachable means to secure the dust-pan body to the broom head.

2. A dust pan adapted to be attached to a broom head and its handle; said dust-pan having a body portion partially enclosing the upper part of the broom head and a handle portion partially enclosing the broom handle, a tubular slide on the broom handle movable toward the broom head to engage over the dust-pan handle to hold the latter against the broom handle, buttons on the sides of the dust-pan body, and a strap having button-holes adjacent its ends engaging said buttons and extending over the broom head opposite the dust-pan body.

3. A dust pan adapted to be attached to a broom head and its handle; said dust-pan having a body portion partially enclosing the upper part of the broom head and a handle portion partially enclosing the broom handle, said dust-pan having a portion at the juncture of the handle and body enlarged to fit the neck portion of the broom head, the enlarged portion provided with a restricted neck adjacent the dust pan body whereby the dust-pan is hindered from longitudinal movement relative to the broom head, a tubular slide on the broom handle movable toward the broom head to engage over the dust-pan handle to hold the latter against the broom handle, buttons on the sides of the dust-pan body, and a strap having button holes adjacent its ends engaging said buttons and extending over the broom head opposite the dust-pan body.

4. A dust pan adapted to be attached to a broom head and its handle; said dust-pan having a body portion partially enclosing the upper part of the broom head and a handle portion partially enclosing the broom handle, means to detachably secure the dust-pan to the broom head and handle, including a metallic strap engaged with the side of the broom head, a tongue rising from the strap and overlying the lower edge of the dust-pan, and an elastic band engaged with the ends of the metallic strap and overlying the other side of the broom.

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