Jan. 27, 1942. R. D. GARTHWAIT 2,271,189

SUSPENDING CAP FOR BROOM HANDLES AND THE LIKE

Filed Dec. 8, 1939

Fig. 1.

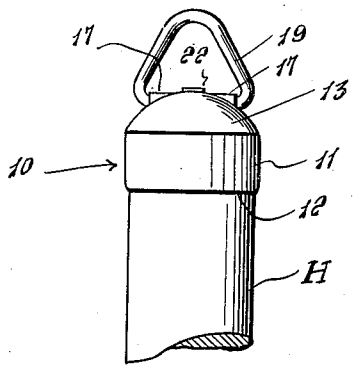


Fig. 2.

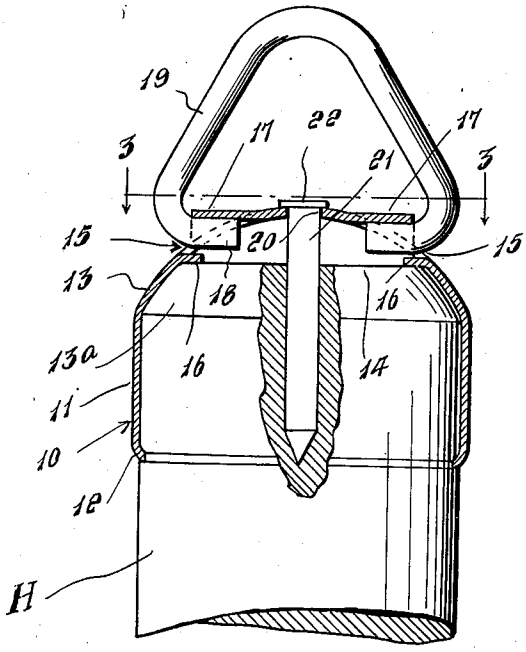


Fig. 4.

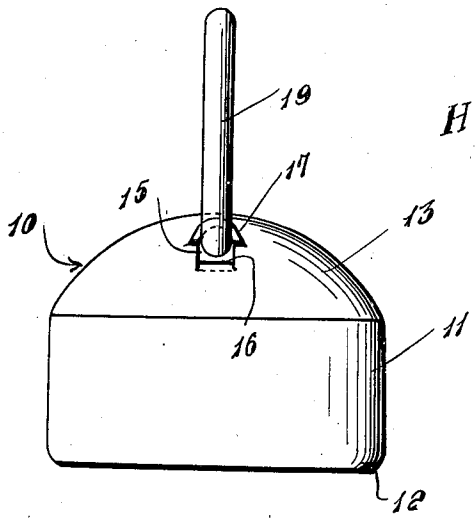


Fig. 3.

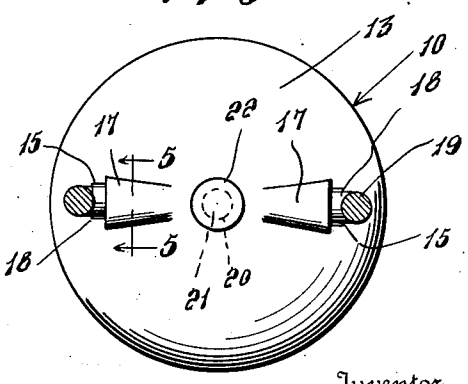
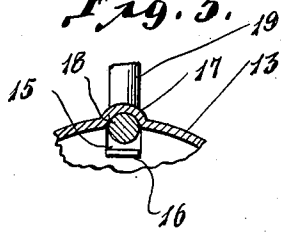


Fig. 5.



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2,271,189

SUSPENDING CAP FOR BROOM HANDLES AND THE LIKE

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Application December 8, 1939, Serial No. 308,279

1 Claim. (Cl. 248—359)

This invention relates to certain new and useful improvements in suspending caps for broom handles and the like.

In suspending caps for broom handles and the like of the type disclosed in the prior art and in commercial use, there is provided a cap for attachment to the inner end of a broom handle or the like and the suspending link or ring usually carried by the cap has the bearing ends thereof mounted in the side walls of the cap to extend interiorly of said cap and with such a device it has been found that the same cannot be properly placed on the end of a broom handle due to interference of the bearing ends of the suspending link or ring which engage some portion of the broom handle, resulting in a crooked or tilted mounting of the suspending cap on the broom.

It is therefore the primary object of the present invention to provide a suspending cap for broom handles and the like wherein the cap is rigidly mounted upon the inner end of a broom handle and the bearing ends for the suspending link or ring carried by the cap are positioned outwardly of the inner end of the broom handle and have free bearing movements unhindered by contact with the broom handle.

It is a further object of the invention to provide a suspending cap for broom handles and the like of the foregoing character, wherein the cap carrying a pivotally mounted suspending link or ring is provided with means adapted to be moved into engagement with the terminal end of the broom handle for limiting movements of the cap on the handle and operating for spacing the bearing ends of the suspending link or ring from the adjacent end of the broom handle resulting in free and unrestricted pivotal movements of the suspending link or ring and non-interference in the mounting of the cap on a broom handle.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists in general of certain novel details of construction and combination of parts herein more fully described, illustrated in the accompanying drawing and specifically claimed.

In the accompanying drawing:

Figure 1 is a fragmentary side elevational view of the inner end of a broom handle or the like equipped with a suspending cap formed in accordance with the present invention,

Figure 2 is an enlarged fragmentary side elevational view of the inner end of a broom handle or the like, partly shown in section, with the suspending cap thereon shown in longitudinal section,

Figure 3 is a horizontal sectional view taken on line 3—3 of Figure 2,

Figure 4 is a side elevational view of the suspending cap, and

Figure 5 is a detail sectional view taken on line 5—5 of Figure 3.

The suspending cap for broom handles and the like comprises a metallic cap designated in general by the reference character 10 and comprising an annular side wall 11 having an inwardly spun lower edge 12 constituting a flange for biting engagement with the inner end H of a broom handle or the like. The upper edge of the annular side wall 11 of the cap carries a dome-shaped or rounded head 13 and the inner end of the handle H is similarly shaped or rounded as at 13a for intimate contact by a portion of the rounded head 13 of the cap, the terminal inner end of the handle H being flat as shown at 14 in Figure 2.

A pair of diametrically opposite openings 15 are formed in the rounded portion 13 of the cap above the inner end 14 of the handle H, these openings being struck in the cap and resulting in the formation of a pair of inwardly directed diametrically opposite lugs 16 respectively at the lower sides of said openings 15, while the material of the rounded head 13 of the cap above said openings is upwardly arched as at 17 to provide pivot bearings for the horizontal bearing ends 18 of a suspending ring or link 19.

An axial opening 20 is formed in the rounded head 13 of the cap for the passage of the cap anchor nail 21 therethrough to enter the inner end of the handle H as shown in Figure 2, the flanged head 22 of the nail 21 overlying the edges of said opening 20 to limit inward driving movement of said nail.

From an inspection of Figure 2, it will be observed that the inwardly directed lugs 17 bordering the lower sides of the opening 15 engage the terminal flat end 14 of the handle H for limiting movement of the cap onto the handle and such engagement of the lugs with the flat end of the handle spaces the bearing ends 18 of the suspending link 19 from the handle resulting in free and unrestricted pivotal movements of the suspending link and assuring non-interference between the bearing ends 18 of the link and the end of the handle H during placement of the suspending cap on the end of the handle. As the bearing ends 18 of the suspending link 19 are

spaced from the end 14 of the handle H by the lugs 16, liability of the suspending link becoming disengaged from the cap by contact with the handle during the mounting of the cap on the handle is eliminated.

While there is herein shown and described the preferred embodiment of the invention, it is to be understood that minor changes may be made in the details of construction, such as will fall within the scope of the invention as claimed.

It is claimed:

In a suspending cap for broom handles and the like, in combination, a handle having its end portion beveled, a suspending cap mounted on the end of the handle and constructed to engage the beveled end portion and adjacent side portion of the handle, a suspending link pivotally attached to the cap adjacent the outer end thereof outwardly of the beveled portion of the handle and means carried by said cap inwardly of the link pivot adapted to be moved into engagement with the end of the handle at the extremity of the beveled portion and cooperating with the adjacent portion of the cap for limiting inward movement of the cap on the handle and spacing said link pivot from the handle, said means comprising lugs struck inwardly from opposite sides of the cap providing pivot openings outwardly thereof for the suspending link and the upper wall of the cap outwardly of said openings and in overlying relation to said lugs being upwardly arched to provide said link pivots above said openings, the lower edge of the cap being spun inwardly for bighting engagement with said handle and an anchor nail extending into the outer end of the cap and engaging in said handle.

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