April 21, 1925.

1,534,401

E. D. LAPPERT

BROOM

Original Filed March 18, 1924

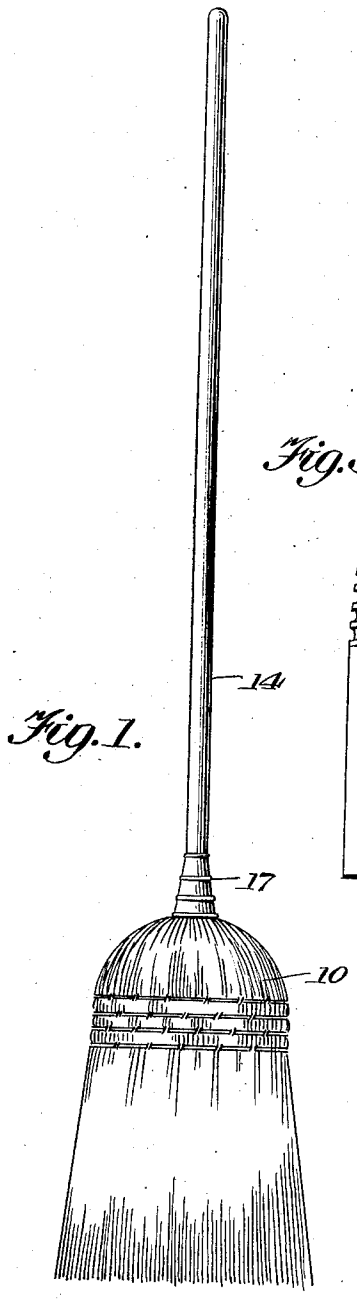


Fig. 1.

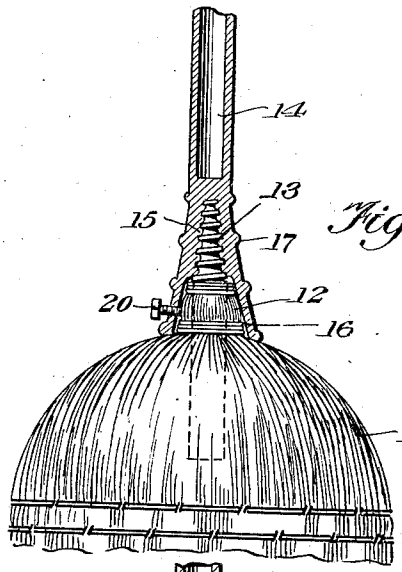


Fig. 2.



Fig. 3.

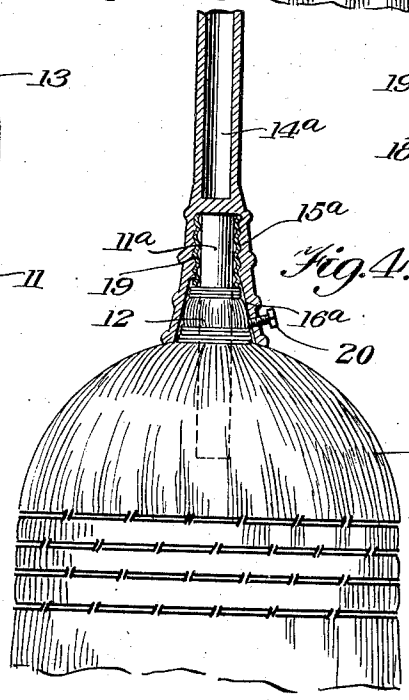


Fig. 4.

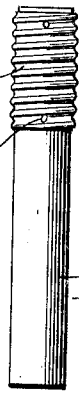


Fig. 5.

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WITNESS:

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UNITED STATES PATENT OFFICE.

EDWARD D. LAPPERT, OF NEW MARTINSVILLE, WEST VIRGINIA.

BROOM.

Application filed March 18, 1924, Serial No. 700,109. Renewed March 13, 1925.

To all whom it may concern:

Be it known that I, EDWARD D. LAPPERT, a citizen of the United States, residing at New Martinsville, in the county of Wetzel and State of West Virginia, have invented new and useful Improvements in Brooms, of which the following is a specification.

This invention relates to improvements in brooms and has for an object the provision of a broom which is provided with a detachable handle whereby the said handle may be removed and attached to a different broom and thus used with one or more brooms with a view of reducing the cost to the user.

Another object of the invention is the provision of novel and simple means for connecting the broom and handle so as to provide a secure connection which will not materially increase the cost of manufacture, the amount of such increase being more than offset by using the same handle with a number of brooms.

Another object of the invention is the provision of means included in the broom and handle connecting means for enclosing and protecting the head of the broom so that the said head will not accumulate dirt or other foreign matter and thus become unsanitary or present an unsightly appearance.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is an elevation of a broom constructed in accordance with the invention.

Figure 2 is an enlarged fragmentary view showing the lower part of the handle in section.

Figure 3 is a detail view of the core.

Figure 4 is a view similar to Figure 2 showing a modified form of connection between the broom and handle.

Figure 5 is a detail view of the core and its threaded sleeve as used in the form of the invention shown in Figure 4.

In brooms of the ordinary type, the lower or inner end of the handle forms the core of the broom and is a permanent part of the broom structure so that when the broom becomes worn or useless the handle must be discarded with the broom. This entails considerable waste of material. Further, in shipping considerable expense is necessary.

The present invention overcomes these disadvantages as well as providing additional advantages by constructing a broom having a detachable handle, the connection between the broom and handle being of a simple and efficient character. For this purpose the broom which is indicated at 10 is constructed upon a core 11, the latter being preferably made of wood and extending beyond the head 12 of the broom, the extended portion 13 being threaded and tapered so as to provide a cone-like extension.

The handle which is indicated at 14 is preferably made of metal and is hollow to reduce weight and conserve material. One end of this handle is provided with a tapered threaded socket 15 for removable engagement with the threaded conical extension 13, while extending from the mouth of this socket is an outwardly flared apron 16. This apron receives and closes the head 12, the outer end of the apron engaging the broom proper as shown in Figures 1 and 2 of the drawings and preventing the accumulation of dirt or other extraneous matter upon said head. This end of the handle may be provided with suitable ornamentation such as spaced annular ribs 17, so that instead of the unsightly, frequently unsanitary head, this part of the broom presents an attractive and ornamental appearance.

Instead of forming the threads directly upon the extended portion of the core, the said core which is indicated at 11^a in Figures 4 and 5 of the drawings may have secured thereon as indicated at 18, an externally threaded sleeve 19, while the handle 14^a has one end provided with a threaded socket 15^a for detachable engagement with the sleeve. An upwardly flared apron 16^a extends from the socket 15^a for the reception of the head 12 as previously mentioned.

If desired, the handle may be provided with a set screw 20 which is adapted to engage the broom head to prevent accidental relative rotation.

While the invention is shown attached to a broom, it is equally well adapted for use upon mops, brushes and the like.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention what is claimed is:—

1. In a broom, a threaded member extending from the head of the broom, a handle having a threaded socket at one end thereof for detachable engagement with the threaded member and an outwardly flared apron extending from the mouth of the socket for receiving and covering the head of the broom.

2. In a broom, a tapered threaded member extending from the head of the broom, a handle having a tapered threaded socket at one end thereof for detachable engagement with the threaded member and an outwardly flared apron extending from the mouth of the socket for receiving and covering the head of the broom.

In testimony whereof I affix my signature.

EDWARD D. LAPPERT.