Feb. 16, 1926. 1,573,686

P. C. DONAHUE

METHOD OF MAKING MOPS

Filed Dec. 8, 1924

Fig. 4.

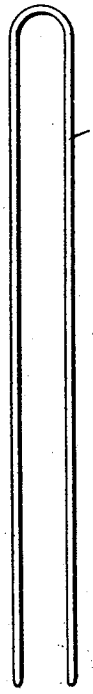


Fig. 1.

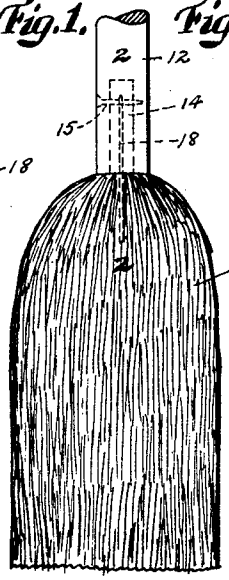


Fig. 2.

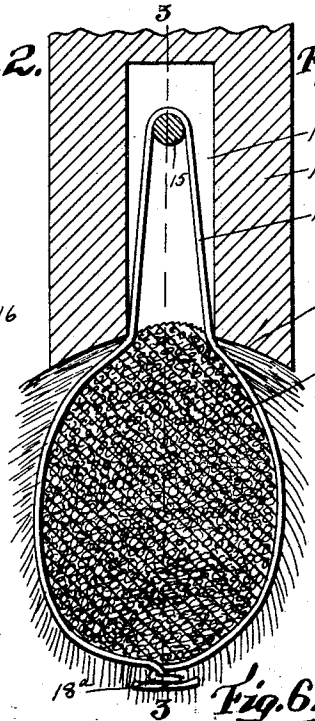


Fig. 3.

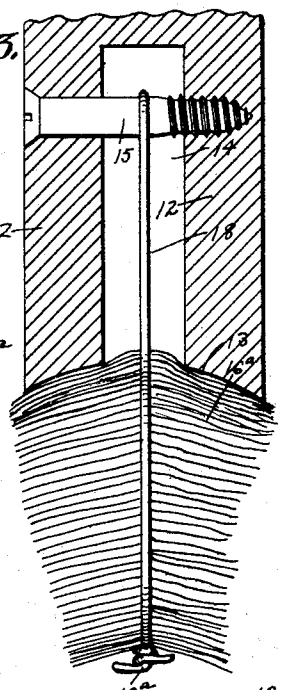


Fig. 6.

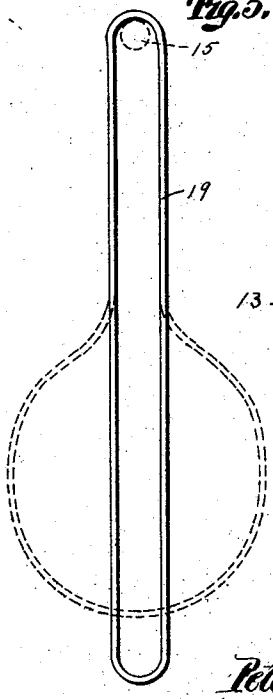
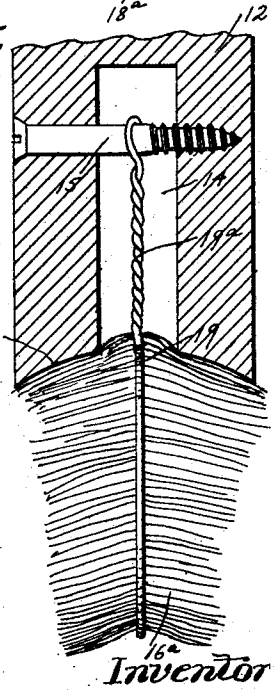


Fig. 5.



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UNITED STATES PATENT OFFICE.

PETER C. DONAHUE, OF CAMBRIDGE, MASSACHUSETTS.

METHOD OF MAKING MOPS.

Application filed December 8, 1924. Serial No. 754,627.

To all whom it may concern:

Be it known that I, PETER C. DONAHUE, a citizen of the United States, residing at Cambridge, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Methods of Making Mops, of which the following is a specification.

This invention relates to an improved method of making mops, brooms and the like which include an elongated handle, usually a wooden rod, and a mass of fibrous mop threads or filaments laid side by side, the mass including a neck portion which is the mid-length portion of the mass, and is clamped against the inner end of the handle, and free end portions which depend loosely from the clamped neck portion.

The object of the invention is to provide a method whereby a strong and durable mop including neck-clamping means of extreme simplicity, and a minimum number of parts is produced, the method permitting the quick and economical assembling of the handle, the mop filaments, and the clamping means.

Of the accompanying drawings forming a part of this specification,—

Figure 1 is a side view of a mop constructed according to the method of the invention.

Figure 2 is an enlarged section on line 2—2 of Figure 1.

Figure 3 is a section on line 3—3 of Figure 2, the mop filaments and the clamping means being shown in elevation.

Figure 4 is a side view of the ligature shown by Figures 2 and 3, before its completion.

Figure 5 is a view similar to Figure 3, showing a different embodiment of the ligature.

Figure 6 is a side view of the ligature shown by Figure 5, before its completion

The method of forming a mop in accordance with this invention comprises providing a handle 12, having at its inner end a concave seat 13, and a longitudinal bore 14 opening on the seat.

In providing a mop such as illustrated in Figures 1 to 4 a ligature 18, preferably of flexible wire, of substantially U-shape is expanded adjacent its open end to receive the neck portions 16^a of a mass of fibrous mop filaments 16, such as cotton yarn, broom corn, rattan or the like.

The free ends 18^a of the ligature 18 are then intertwisted as indicated in Figures 2 and 3 to hold the filaments in place, and the unexpanded portion of the ligature is thereafter inserted in the bore 14 of the handle and secured therein. As shown, an anchoring member 15, preferably a wood screw, is inserted transversely of the handle bore and engages the ligature to hold it securely in the handle. After the anchoring member has been inserted, the handle 12 is held firmly while the lower ends 18^a of the ligature are rotated to cause a further intertwisting of them, which operation binds the filaments on the seat 13 at the end of the bore in the handle.

The method of forming the mop illustrated in Figures 5 and 6 wherein an endless ligature 19 is employed, is substantially the same as that described except that after the anchoring member 15 has been inserted through the endless ligature, the mass of filaments and the expanded portion of the ligature, indicated in dotted lines (Fig. 6) are rotated relative to the handle 12 thereby causing the members of the unexpanded portion of the ligature to intertwist as indicated at 19^a, (Fig. 5). This operation decreases the distance between the neck-embracing portion and the anchoring member and tensions the ligature so that it firmly clamps the neck portion 16^a against the seat 13.

I claim:

1. The herein described method of making a mop which comprises providing a handle having at one end a recessed seat and a bore opening into the seat, providing a ligature of an elongated loop form, expanding the loop at one end, inserting a mass of filaments in said expanded portion of the loop fixedly securing the unexpanded end of the loop in the handle bore, and rotating the mass of filaments relative to the handle to intertwist the members of the loop and bind the filaments on the seat.

2. The herein-described method of making a mop which comprises providing a handle having at one end a recessed seat and a bore opening into the seat, providing a ligature of an elongated loop form, expanding the loop at one end, inserting a mass of filaments in said expanded portion of the loop, inserting anchoring means through the handle and the unexpanded end of the loop, transversely of the handle bore, to fixedly secure said unexpanded portion in the bore, and longitudinally contracting the loop to bind the filaments on the seat.

In testimony whereof I have affixed my signature.

PETER C. DONAHUE.