

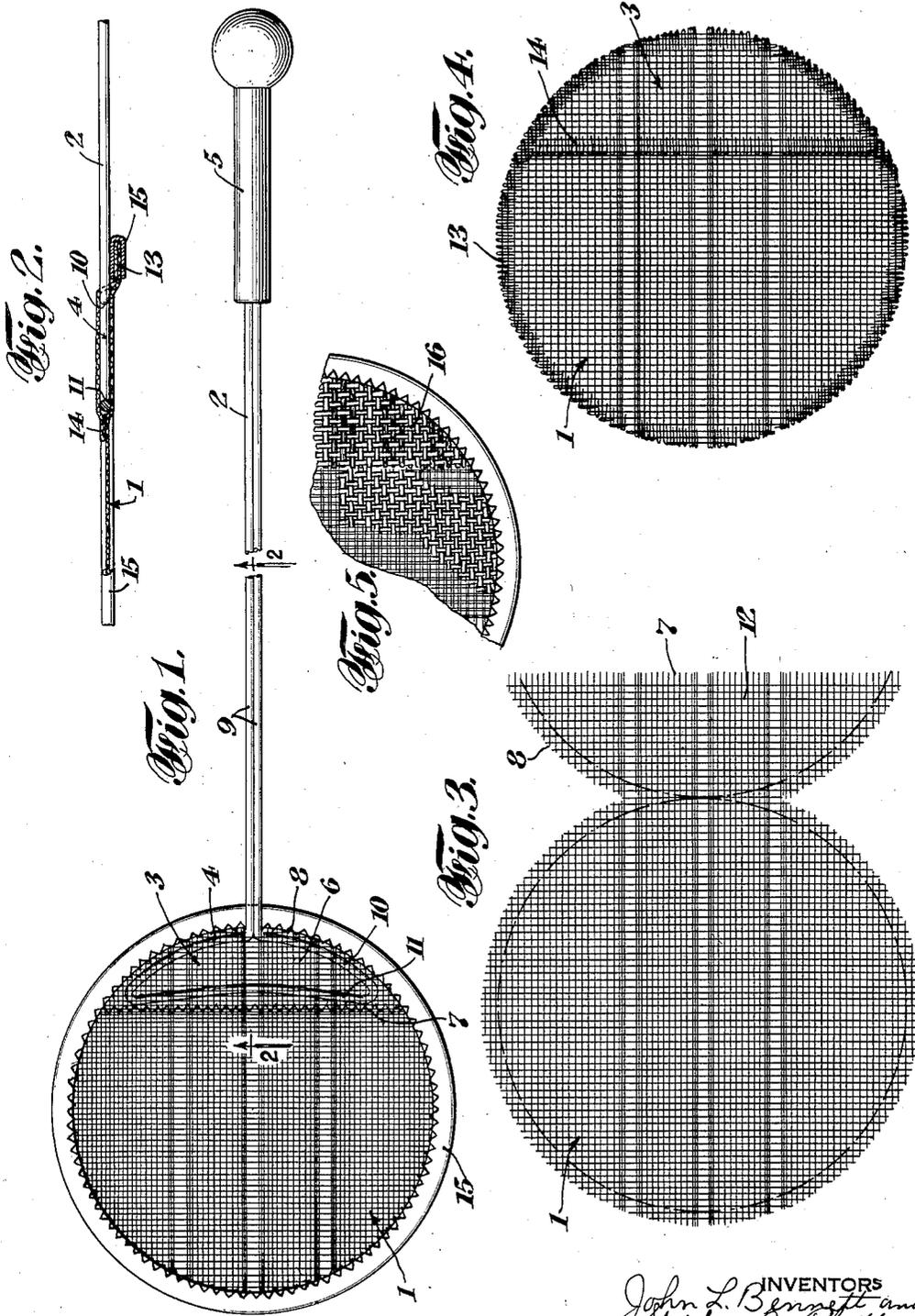
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FLY SWATTER

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FLY SWATTER

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7 Claims. (Cl. 43—137)

This invention relates to improvements in fly swatters, and the various objects of the invention will be apparent from the consideration of the drawing and the specification and appended claims, it being expressly understood that various changes may be made in practice within the scope of the claims without digressing from my inventive ideas, as specifically shown and described.

In the drawing—

Figure 1 represents an elevation of a device constructed to embody the invention.

Figure 2 is a cross section taken substantially on line 2—2 of Figure 1.

Figure 3 is a plan view of one form of blank cut out for the body before being bent.

Figure 4 is a view of the same blank after the segment is bent up against the body, the edge of the segment intumed and the peripheral edge of the body as a whole intumed.

Figure 5 is a segmental view of a body made of different material.

The completed article will first be described. It comprises a body portion 1 and a handle portion 2. The body portion 1 is circular and disc-like in shape and has a pocket 3 of segment shape formed or provided along one edge. This pocket is adapted to receive the extended head 4 of the handle member 2 which has the gripping element 5 secured to or provided on its other end.

The circular head is made of a suitable open mesh fabric which may be composed of wire, cellulose or fibre strands or the like. The segment shaped element 6 may be made of the same material or of different material from the main part of the body. It has the upper straight edge 7 and the curved edge 8 forming the segment and may be secured to the body along its upper edge by stapling or stitching or other equivalent means, and also at its circular edge by similar means and other means as hereinafter described. The handle portion is preferably in the form of a wire or rod element bent upon itself to provide an extended portion 9 formed of parallel wires, the free ends of which fit within the gripping element 5 which is made of wood, composition or other suitable material. The head 4 of the handle portion is preferably formed in the shape of a flattened arcuate loop, the lower part 10 of which is curved to parallel the periphery of the fly swatter body and the upper part 11 of which is flattened considerably to conform substantially to the upper line of the pocket so that this extended head 4 has an extended bearing within the pocket for substantially the full extent of the pocket. It is to be noted that the parallel strands

9 of the handle portion extend through the interstices of the fabric of which the body or segment is made so as not to break any of the strands thereof.

When the body is formed of wire mesh the segment 6 is preferably stamped as an integral part of the body as at 12 and then folded up upon the body after which the entire peripheral edge of the body, including the curved edge of the segment is turned over as at 13 to provide a strengthening rim around the entire edge of the body. It is to be noted that the straight edge of the segment is also bent upon itself as at 14, or rather turned under so that when in position on the body a smooth reinforced edge portion is provided through which the staples or stitches are passed. After the body is thus formed, a suitable binding 15 is applied to both sides of the peripheral edge thereof and pressed thereagainst by means of hot dies and then this binding is stitched to the body entirely therearound.

When the body is formed of cellulose or fibre strands, the same method may be employed or the segment 16 may be provided as a separate piece and placed upon the body in proper position to form the structure as previously described. In applying the binding to this form of construction and subjecting the body to the action of heat and pressure in heated dies, a decided adhesive action is had between the edges of the body and the binding, which, of course, results in greater reinforcement and greater security.

It is to be noted that the body of this device is reinforced entirely around its periphery and that the extended head of the handle is positioned in the pocket and extends substantially across the entire extent of the pocket so as to have a substantial bearing surface against the body of the device. The reinforced edge of the pocket segment also affords a support or reinforcement of the body. This construction results in a very strong device of maximum life without distortion or breakage, due to extended and severe use. Furthermore, the method by which this device is made lends itself to factory production methods and provides a device which is very attractive and symmetrical in appearance.

What we claim is:

1. A device of the character described, including in combination a circular body formed of a suitable open mesh fabric, a segmental member likewise of open mesh fabric secured to one part of the periphery of the body with its curved edge arranged tangentially to the adjacent portion of

the periphery of the circular body and folded over the said body with its curved edge concentric to and parallel with the periphery of the body to form a substantial pocket in connection with the body, the entire peripheral edge of the body and segment being turned upon itself to provide an edge reinforcement, and a handle member having an enlarged head positioned in said pocket whereby it is connected to said body, said handle member being formed of wire bent to provide the head and a pair of parallel strands to form the extended handle, such strands being passed through the open meshes of the body or segment without breaking the material thereof.

2. A device of the character described, including in combination a circular body formed of a suitable open mesh fabric, a segmental member likewise of open mesh fabric having one edge curved to correspond to the curve of the body and having another edge straight and secured to a portion of the periphery of the circular body with its curved edge arranged tangentially to the adjacent portion of the periphery of the said body, said segmental member being folded over the circular body and having its curved edge arranged concentric to and parallel with the periphery of the circular body to form a segmental pocket in connection with the body, the straight edge of the segmental member being bent upon itself to provide a reinforcement, securing means passing through said straight edge reinforcement to secure that part of the segment to the body, the entire peripheral edge of the body and segment being turned upon itself to provide an edge reinforcement, and a handle member having a head positioned in said pocket with parts of the handle member extending through the meshes thereof.

3. A fly swatter including in combination a circular body formed of a suitable open mesh fabric, a segmental member also of open mesh fabric secured to a part of the body by having its curved edge secured to part of the curved edge of the body and arranged tangentially thereto, said segmental member being folded over the circular body with its curved edge concentric to and parallel with the periphery of the said body to form a segmental-shaped pocket in connection with the body, the straight edge of the segmental member being secured to the main part of the body, a handle member having an enlarged extended head positioned in said pocket, said head extending for substantially the full width of the pocket so as to have an extended bearing therein.

4. A device of the character described including, in combination, a circular body formed of a suitable open mesh fabric material, a curved segmental member also of open mesh fabric material formed as an extension on said circular body, said segmental member being formed as a part of the periphery of said circular body and being folded over upon the said circular body with its curved edge concentric to and parallel with the periphery of said circular body to form an extended pocket in connection with said body, the entire peripheral edge of said body being bound,

and a handle member having an enlarged head positioned in said pocket whereby it is connected to said body, said enlarged head extending for substantially the entire width of said pocket so as to have an extended bearing therein, said handle member being formed of wire bent to provide said enlarged head and a pair of parallel strands extending from said enlarged head.

5. A device of the character described including, in combination, a circular body formed of a suitable open mesh fabric, a curved segmental member also of open mesh fabric secured to one part of the periphery of said circular body and folded over the said circular body with its curved edge concentric to and parallel with the periphery of said circular body to form an extended pocket in connection with said body, the entire peripheral edge of said body and said segmental member being bound, and a handle member having an enlarged head positioned in said pocket whereby it is connected to said body, said handle member being formed of wire bent to provide said enlarged head and a pair of parallel strands extending from said head, said strands being passed through an opening in the open mesh fabric of said body and segmental member without breaking or distorting the material thereof.

6. A device of the character described including, in combination, a circular body formed of a suitable open mesh fabric material, a segmental curved member also of open mesh fabric material secured to one part of the periphery of said circular body with its curved edge arranged tangentially to the adjacent portion of the periphery of said circular body and folded over the said body with its curved edge concentric to and parallel with the periphery of said body to form an extended pocket in connection with said body, and a handle member having an extended head positioned in said pocket whereby it is connected to said body, said handle member being formed of wire bent to provide said extended head and a pair of parallel strands extending from said head, said strands being passed through an opening in the open mesh fabric material.

7. A device of the character described, including, in combination, a circular body formed of a suitable open mesh fabric material, a segmental member also formed of open mesh fabric material and having one edge curved and another edge straight, said segmental member being secured to a portion of the periphery of said circular body with its curved edge arranged tangentially to the adjacent portion of said body, said segmental member being folded over said circular body and having its curved edge arranged concentric to and parallel with the periphery of said circular body, the straight edge of said segmental member being secured to said body so that said segmental member forms a pocket in connection with said body, and a handle member having a head positioned in said pocket with parts of said handle member extending therefrom.

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