Jan. 15, 1957 R. C. BELSKY ET AL 2,777,148

MOP ASSEMBLY

Filed May 4, 1956

FIG. 1

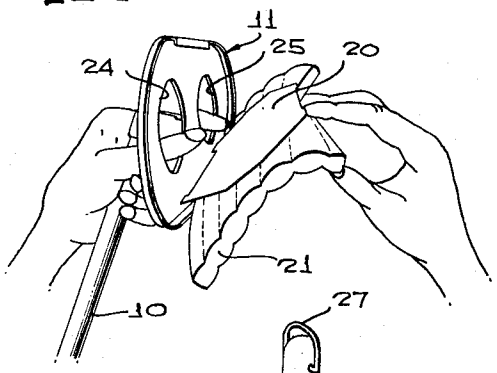


FIG. 2

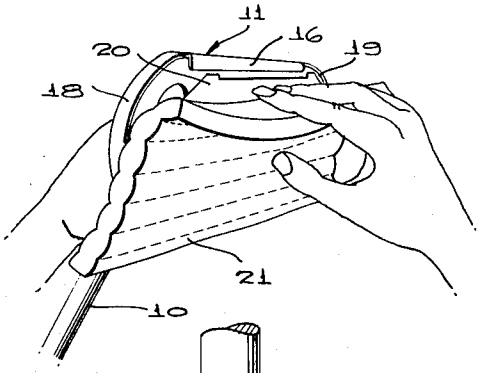


FIG. 3

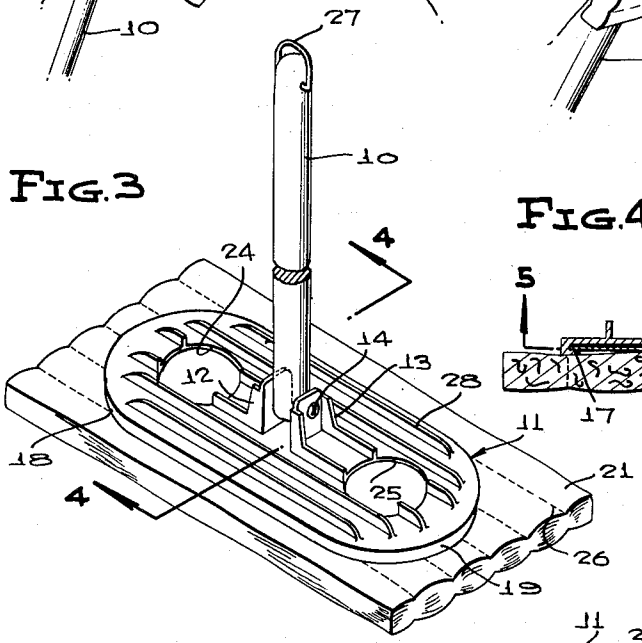


FIG. 4

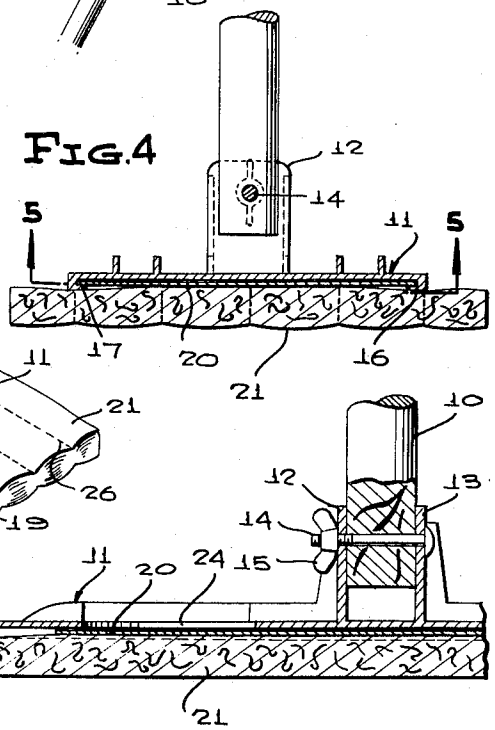


FIG. 5

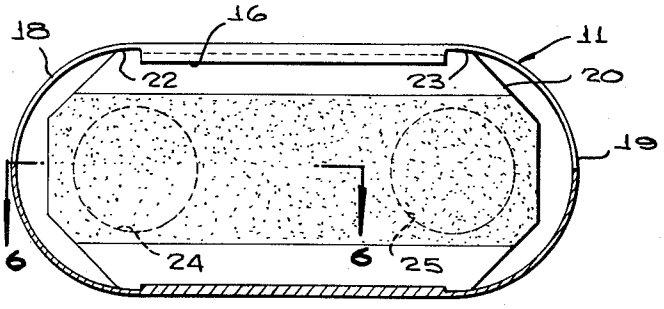


FIG. 6

INVENTORS
GLORIA B. KLARFELD,
THEODORE B. BELSKY &
ROBERT C. BELSKY

BY

McMorrow, Berman + Davidson
ATTORNEYS

United States Patent Office 2,777,148
Patented Jan. 15, 1957

2,777,148

MOP ASSEMBLY

Robert Charles Belsky, Theodore B. Belsky, and Gloria B. Klarfeld, Holyoke, Mass.

Application May 4, 1956, Serial No. 582,711

3 Claims. (Cl. 15—228)

This invention relates to a mop assembly, and more particularly to an assembly in which there is a disposable mop pad.

In our prior application, Serial No. 418,012, filed March 23, 1954, and now Patent No. 2,764,774, there is disclosed and claimed a mop assembly comprising a substantially circular head swivelly secured to a handle, the head having an inwardly and downwardly inclined peripheral flange, a substantially circular flexible mop pad backing member seated within the peripheral flange and substantially engaging the bottom surface of the head, a mop pad carried by the backing member, a plunger element mounted on the head and movable downwardly through an aperture formed in the backing member to engage the backing member and push the backing member out of the flange, and spring means biasing the plunger element upwardly.

In the mop assembly of the present invention a head and backing member of a different structure is employed, and the spring biased plunger element is eliminated.

An object of the present invention is to provide a mop assembly in which there is a mop head enabling the ready attachment of a disposal mop pad thereto.

Another object of the present invention is to provide a mop assembly in which the disposable mop pad may be detached from the head by application of a manually directed pressure to the pad.

A further object of the present invention is to provide a mop assembly which is of simple structure, commercially feasible, and highly efficient in action.

These and other objects and advantages of the present invention will be fully apparent from the following description when taken in connection with the annexed drawing, in which:

Figure 1 is a perspective view of the disposable mop of the mop assembly according to the present invention in the initial stage of being mounted upon the head of the assembly,

Figure 2 is a perspective view of the parts of Figure 1, but with the mop in the final stage of being mounted upon the head,

Figure 3 is a perspective view of the mop assembly, with parts broken away, according to the present invention,

Figure 4 is a sectional view taken on the line 4—4 of Figure 3,

Figure 5 is a sectional view taken on the line 5—5 of Figure 4, and

Figure 6 is a sectional view taken on the line 6—6 of Figure 5.

Referring in greater detail to the drawing, in which like numerals indicate like parts throughout the several views, the mop assembly of the present invention comprises a handle **10** and a head **11**. Attaching means is carried by one face of the head **11** and consists in a pair of L-shaped brackets **12** and **13** arranged with one leg of each secured to or formed integrally with the face of the head **11** and with the other legs spaced apart from each other and projecting perpendicularly to the head face. Detachable means is provided for securing one end of the handle **10** to the brackets **12** and **13** and constitutes a bolt **14** having a wing nut **15** removably secured to the end of the bolt **14**. The bolt projects through a hole provided in the end portion of the handle **10**. The bolt **14** permits pivotal movement of the handle **10** with respect to the head **11**.

The head **11** is flat and has a pair of side edges arranged in parallel relation and a pair of opposed and downwardly extending and inwardly extending flange portions **16** and **17** are adjacent the other face of the head opposite to the brackets **12** and **13** are dependingly carried by the side edges of the head **11**. A skirt **18** connects the adjacent ends of the flange portions **16** and **17** at one end thereof and another skirt **19** connects the other ends of the flange portions **16** and **17** together. The skirts **18** and **19** depend from the same side of the face of the head **11** as do the flange portions **16** and **17**.

A flexible backing member **20** substantially engages the face of the head **11** between the flange portions **16** and **17** and has opposed edge portions seated in the flange portions **16** and **17**. A mop pad **21** shaped to sheet form extends over the entire area of and is secured to the face of the backing member **20** opposite to the head **11**.

The portions of the head **11** adjacent each end of the flange portions **16** and **17** are semicircular in shape and the edge portions of the backing member **20** are longer than the flange portions **16** and **17** and engage the adjacent portions of the skirts **18** and **19**, as at **22** and **23** in Figure 5, to retain the backing member **20** against lateral and longitudinal movement with respect to the head **11**.

The mop pad **21** has portions adjacent its perimeter projecting beyond the boundary of the backing member **20**. The head **11** is formed with a pair of spaced apertures **24** and **25** arranged centrally of the circular portions of the head **11** through which a manually directed pressure may be applied to the face of the backing member **20** for bending the latter and removing it from engagement with the flange portions **16** and **17** of the head **11**.

The mop pad **21** is preferably fabricated of padding which may consist of natural fibres, such as cotton, wool, and the like, alone or in admixture with synthetic fibres, such as rayon, nylon, and the like, the fibres being held in sheet form by means of a flexible webbing. The mop pad **21** may be provided with stitching as at **26** in Figure 3, so that it retains it substantially rectangular flat shape without raveling.

A bail **27** is provided on the upper end of the handle **10** for conveniently hanging the mop assembly in a place of storage.

The handle may be fabricated of wood or light metal tubing, as desired, and the mop head **11** fabricated of light metal or cast from plastics. Reinforcing ribs are provided on the face of the head **11** opposite to the mop pad **21**, so as to make the mop head rigid and permit application of force to the surface to be scrubbed or polished.

What is claimed is:

1. A mop assembly comprising a handle, a head, attaching means carried by one face of said head, detachable means for securing one end of said handle to said attaching means for pivotal movement, opposed downwardly and inwardly extending flange portions on the other face of said head, a flexible backing member having opposed edge portions seated in said flange portions with one face thereof substantially engaging the other face of said head, and a mop pad shaped to sheet form extending over the entire area of and secured to the other face of said backing member, said pad having portions adjacent the perimeter projecting beyond the boundary of said backing member, there being an aperture in said head through which a manually directed pressure may be applied to said one face of said backing

member for releasing said backing member from engagement with said flange portions.

2. A mop assembly comprising a handle, a head, attaching means carried by one face of said head, detachable means for securing one end of said handle to said attaching means for pivotal movement, opposed downwardly and inwardly extending flange portions on the other face of said head, a skirt connecting each of the adjacent ends of said flange portions together and dependingly carried by said head, a flexible backing member having opposed edge portions seated in said flange portions with one face thereof substantially engaging the other face of said head and parts of said edge portions engaging the adjacent portions of said skirt to retain said backing member against lateral and longitudinal movement with respect to said head, and a mop pad shaped in sheet form extending over the entire area thereof and secured to the other face of said backing member, said pad having portions adjacent the perimeter projecting beyond the boundary of said backing member, there being an aperture in said head through which a manually directed pressure may be applied to said one face of said backing member for releasing said backing member from engagement with said flange portions.

3. A mop assembly comprising a handle, a flat head having a pair of side edges arranged in parallel relation,

attaching means carried by one face of said head, detachable means for securing one end of said handle to said attaching means for pivotal movement, opposed downwardly and inwardly extending flange portions adjacent the other face of said head and dependingly carried by said side edges, a skirt connecting each of the adjacent ends of said flange portions together and dependingly carried by said head, a flexible backing member having opposed edge portions seated in said flange portions with one face thereof substantially engaging the other face of said head, and a mop pad shaped to sheet form extending over the entire area of and secured to the other face of said backing member, said pad having portions adjacent the perimeter projecting beyond the boundary of said backing member, there being a pair of spaced apertures in said head through which a manually directed pressure may be applied to said one face of said backing member for releasing said backing member from engagement with said flange portions.

References Cited in the file of this patent

UNITED STATES PATENTS

1,538,740	Petersen	May 19, 1925
1,801,915	Gray	Apr. 21, 1931
2,320,372	McCarthy	June 1, 1943