E. D. COURTNEY.

MOP HEAD.

APPLICATION FILED JAN. 20, 1917.

1,224,524. Patented May 1, 1917.

Fig. 1.

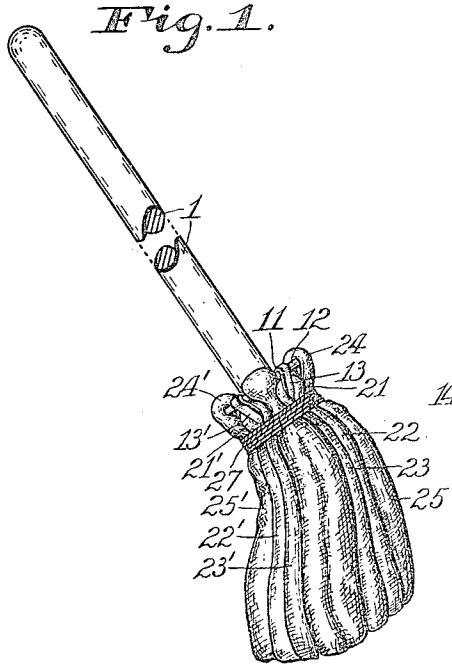



Fig. 2.

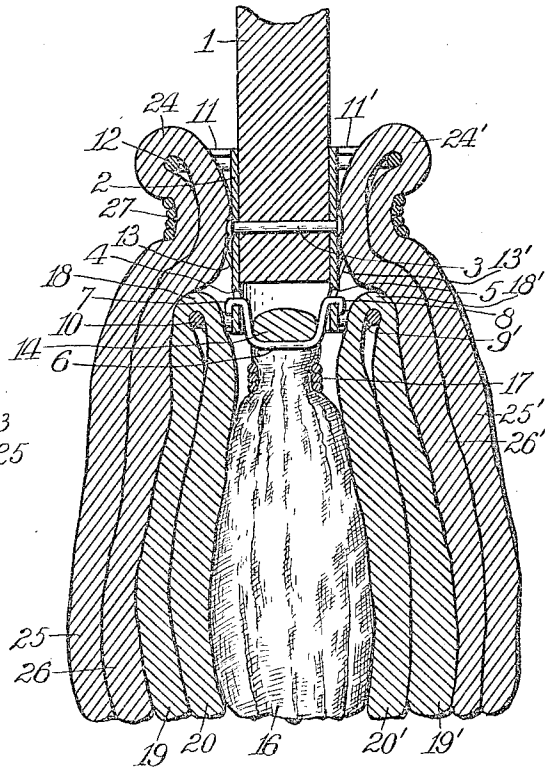



Fig. 3.

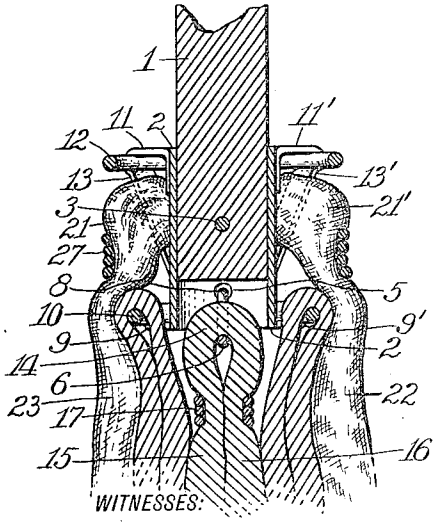
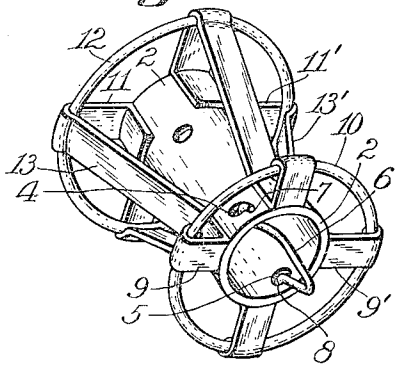



Fig. 4.




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# UNITED STATES PATENT OFFICE.

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## MOP-HEAD.

1,224,524. Specification of Letters Patent. Patented May 1, 1917.

Application filed January 20, 1917. Serial No. 143,499.

*To all whom it may concern:*

Be it known that I, EDWARD D. COURTNEY, a citizen of the United States, residing at Danville, in the county of Hendricks and State of Indiana, have invented a new and useful Mop-Head, of which the following is a specification, reference being had to the accompanying drawings, and to the figures of reference marked thereon.

This invention relates generally to mops of the character that are commonly used for scrubbing or cleansing floors, the invention having reference more particularly to the head or device whereby the mop material is connected to a handle for convenient use.

An object of the invention is to provide an improved mop head of such construction as to permit the mop material to be removed and replaced by new material when desired by the user. Another object is to provide a mop head of such construction as to be adapted for holding a very large amount of mop material and which shall be so constructed that the mop material may be composed of strips of fabric from discarded garments or other articles which may be economically and advantageously utilized. A further object is to provide an improved mop head to which the mop material may be readily connected without necessitating the use of special tools or appliances, so that the users may readily keep themselves supplied with mops with the ordinary resources at hand after having obtained the mop head.

With the above-mentioned and other objects in view the invention consists in a mop head having differently arranged series of devices to which mop material such as strands or strips of fabric may be connected to build up a full and compact mop and permit the material to be secured in place by simple binding cords or twine; the invention consisting further in the novel parts and combinations and arrangements of parts as hereinafter particularly described and further defined in the accompanying claims.

Referring to the drawings,—Figure 1 is a perspective view of a complete mop constructed in accordance with the invention, the handle thereof being partially broken away; Fig. 2 is a central section of the complete mop minus a portion of the handle; Fig. 3 is a fragmentary section at right angles to the plane of the preceding figure; and, Fig. 4 is a perspective view of the improved mop head.

Similar reference characters on the different figures of the drawings indicate corresponding elements or features of construction herein referred to.

The mop includes a suitable stick or handle 1 as is customary. The improved head comprises a tubular core 2 which is placed on the handle and secured thereto by such means as a rivet 3 or as may be desired. The core projects a suitable distance beyond the adjacent end of the handle and has apertures 4 and 5 in opposite portions thereof near the adjacent end of the core to support a central hanger 6 which has hooked end portions 7 and 8 that are inserted in the apertures respectively. The end portion of the core has a suitable number of radial arms 9, 9′ thereon which support a ring 10 that encircles the core at a suitable distance therefrom. The opposite or upper end portion of the core has relatively longer arms 11, 11′ radially arranged thereon that support a ring 12 that is relatively larger in diameter than the ring 10. The arms may be variously secured so as to be rigid on the core. A suitable number of braces 13, 13′ are connected to the ring 12 and extend downward convergently to the core and are suitably secured thereto. In some cases an upper arm and a lower arm may be integrally connected with a brace as illustrated. So constructed the mop head and its handle may be sold by dealers, and also the mops may be manufactured complete with the mop material connected to the head, in which case the material will be new material of the kind best suited for the purpose. The mop material supplied by the user may be economically composed of strips of fabric as shown, one strip being drawn partially across the hanger 6 and doubled upon itself so as to form a loop 14 and strands 15 and 16 which are secured in place by suitable binding 17, to constitute a central bunch of substance. Other strips or strands are drawn over the ring 10 so as to form loops 18, 18′ and strands 19 and 20 and 19′ and 20′ respectively, the available space on the ring being filled so that the strands hang against the central bunch. Also longer strips or strands are drawn between the core and the braces 13, 13′ so as to form suspension loops 21, 21′ and depending strands

22, 23 and 22′, 23′ that hang outside the material previously arranged. Still longer strips are drawn over the ring 12 to form supporting loops 24 and strands 25 and 26 and similar loops 24′ and strands 25′ and 26′ that are arranged with the other material and secured by suitable binding 27 placed about the material between the rings 10 and 12 so as to secure the material firmly to the core 2. The ends of the strands may be sheared evenly.

A very full mop of any desired length is thus produced which is well suited to absorb and hold considerable water as is usually desired and may be wrung as is customary during use. When the mop material is worn out or becomes unsanitary it may be readily discarded as will be readily understood, and replaced by clean material as above described.

Having thus described the invention, what is claimed as new is—

1. A mop head comprising a tubular core having two series of arms thereon, the core having two apertures in its wall near one end thereof, a hanger having hooks suspended in the apertures, and two rings connected to the arms of the two series thereof respectively.

2. A mop head comprising a tubular core having two series of arms thereon, the arms of one series being radially arranged adjacent to one end of the core, the arms of the remaining series being radially arranged adjacent to the opposite end of the core, and two rings encircling the core and connected respectively to the arms of the two series thereof.

3. A mop head comprising a tubular core having a hanger in one of its ends and also radial arms adjacent to the end, the core having also relatively longer radial arms adjacent to its opposite end, a ring connected to the shorter radial arms, a relatively larger ring connected to the longer radial arms, and braces connected to the larger ring and to the core in proximity to the shorter arms.

4. In a mop, the combination of a tubular core, a handle inserted into and extending partially through the core and secured therein, a hanger connected to the inside of the core adjacent to the end of the handle, two series of arms of different length secured to the core, the shorter arms being the nearer to the hanger, a ring connected to the series of shorter arms, a relatively larger ring connected to the series of longer arms, and braces connected to the larger ring and also to the core adjacent to the shorter arms.

In testimony whereof, I affix my signature in presence of two witnesses.

EDWARD D. COURTNEY.

Witnesses:
E. T. Silvius,
Myrtle McCoy.

**Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."**