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M. PAUL

2,941,225

COMBINED SPONGE AND METALLIC SCOURING PAD

Filed Jan. 15, 1959

FIG. 1.

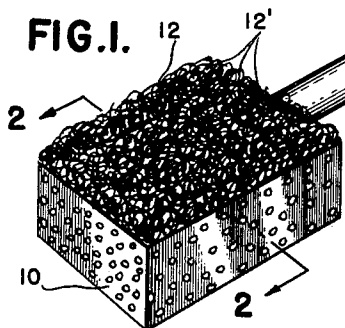


FIG. 8.

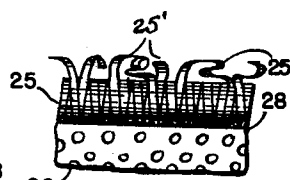


FIG. 2.

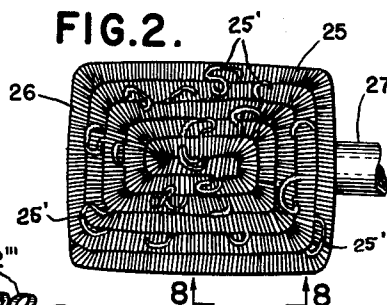


FIG. 7.

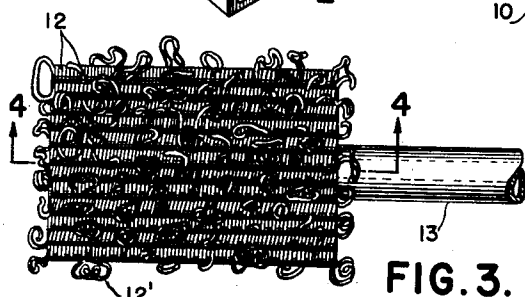


FIG. 3.

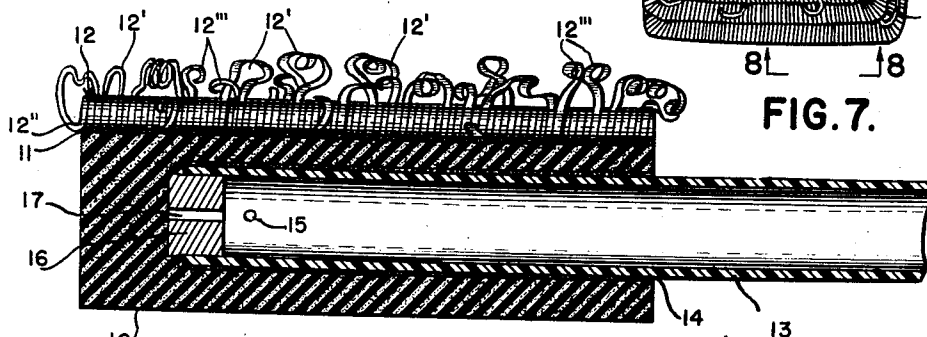


FIG. 4.

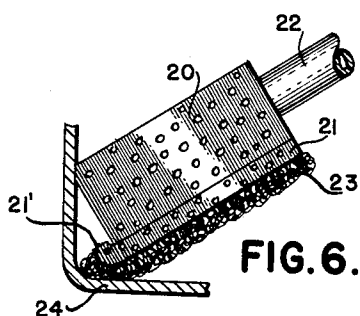


FIG. 6.

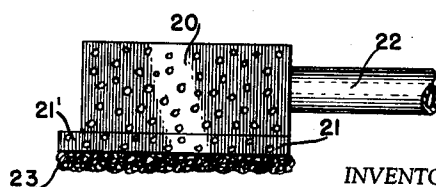


FIG. 5.

INVENTOR
Milton Paul

BY

L. S. Saulsbury

ATTORNEY

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2,941,225

COMBINED SPONGE AND METALLIC SCOURING PAD

Milton Paul, 144-75 Melbourne Ave.,
Kew Garden Hills, N.Y.

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3 Claims. (Cl. 15-118)

This invention relates to a combined sponge and metallic scouring pad.

It is the principal object of the present invention to provide a combined sponge and metallic scouring pad in which the sponge will have metallic spiral coils attached to the sponge material such that certain of the individual coils will be permitted to be severed or pulled from the sponge while other coils are held firmly so that a stringy and large volume of stretched metallic coils will be obtained and render the metallic wool more and more suitable for sudsing and scrubbing of dishware and cooking utensils with continued use.

It is another object of the invention to provide a combined sponge and metallic scouring pad adapted for use on a hollow handle through which the liquid detergent may be supplied to the interior of the sponge for use therewith while effecting the scouring action as well as the sponging with the pad.

It is still another object of the invention to provide a combined sponge and metallic scouring pad adapted for use on a handle in which the metallic coils are connected to a portion of the sponge, either formed of a separate piece or of the same material which overlies the outer end of the body of the sponge so that as the sponge is applied to the utensil by the handle the metallic scouring coils will be made accessible upon the end of the pad and allow the pad thereby to provide scrubbing metal in the corners or rounded surfaces of the utensil.

Other objects of the present invention are to provide a combined sponge and metallic wool scouring pad having the above objects in mind, which is of simple construction, easy and inexpensive to manufacture, durable and has long life, non-corrosive, the sponge and the metallic coils adhered with waterproof material, formed of attractive and colorful materials, efficient and effective in use.

For a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Figure 1 is a perspective view of a combined sponge and metallic scouring pad with a handle thereon,

Fig. 2 is an enlarged transverse sectional view of the combined sponge and metallic scouring pad as viewed on line 2-2 of Fig. 1 and showing the manner in which certain of the coils of the metal adhered to the sponge material surface are pulled and separated therefrom,

Fig. 3 is a plan view of the combined sponge and metallic scouring pad looking upon the metallic coils and showing certain of the coils separated from the sponge throughout the mass,

Fig. 4 is an enlarged longitudinal sectional view of the combined sponge and metallic scouring pad as viewed on line 4-4 of Fig. 3,

Fig. 5 is a side elevational view of a preferred form of a scouring pad by which the scouring metal can overlie the end of the sponge and thereby adapt the pad for use in the corner of a utensil,

Fig. 6 is a side elevational view of the scouring pad

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shown in Fig. 5 being applied in the corner of a utensil with the extended end of the metallic material folded over the end of the main body of the sponge material to thereby provide metal on the end of the sponge when the pad is being used,

Fig. 7 is a top plan view of the combined sponge and metallic scouring pad constructed according to another form of the invention with metallic coils adhered differently upon the sponge,

Fig. 8 is an enlarged vertical sectional view taken on line 8-8 of Fig. 7 showing more clearly the manner in which the metallic coils are interfitted with one another and adhered.

In the construction of the present scouring pad preferably sponge material of polyurethane is used. The polyurethane has small and uniform size pores and thereby provides a surface to which a metal coil can be best adhered by any waterproof adhesive best adapted for use with polyurethane sponge surfaces.

The metallic coil material is preferably of a uniform diameter and continuous spiral shaving approximately one quarter inch in diameter of stainless steel, copper, brass or similar non-corrosive metal. The coiled material may be formed of resilient wire preferably having corner edges. A sponge piece 10 of polyurethane and of rectangular shape may be cut from a sheet of polyurethane material providing a flat top surface having small pores and adapted for the use or application thereto of waterproof cement or adhesive layer 11 in which metal coils 12 running along the top surface are partially embedded and upon the adhesive being dried will cause certain of the coils of the metal to be more adhered to the top surface of the sponge while other coils are left less adhered and such that they are permitted to become detached or pulled from the adhesive and extended to provide a thick elevated mass of the metallic coil material having edges for the scouring action in a larger mass for giving better sudsing action. These released coils are best identified and shown at 12' while the more attached coils are best identified at 12''.

Within the sponge piece 10 there is adhered a hollow handle tube 13, by adhesive 14. This handle is adapted to contain a detergent that can work its way into the sponge material through perforations 15 on the inner end of the handle. The inner end of the handle 13 within the sponge piece is closed by a stopper 16 that also has a leak hole 17 through which the detergent can pass into the outer end of the sponge piece. A removable cap 18 is provided on the outer end of the handle 13 which can be removed to supply the handle with detergent.

If desired, certain of the pulled and released coils or loops can be severed to provide individual strands 12''' as well as the loops 12' throughout the pulled or expanded mass of the metallic material.

In Figs. 5 and 6, there is shown a combined sponge and metallic scouring pad in which the sponge is formed of two pieces 20 and 21, adhered together, in which the piece 20 contains the hollow handle 22 and the piece 21 has adhered to its surface metallic coils 23 in the manner as above described. The sponge piece 21 containing the metal coils has an extension 21' that lies beyond the outer end of the sponge piece 20 and which is bendable in the manner as shown in Fig. 6 to supply the portion of the metallic coils lying upon the extension into a corner of a utensil 24 as illustrated in Fig. 6 whereby the end of the scouring pad will be supplied with a metallic scouring mass without the same having to be placed on the end of the sponge piece angled from the horizontal surface as a separate operation. This eliminates the need for adhering either the metal coil material to the end face of a main body piece 20. The operation of

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adhering the piece 21 to the piece 20 is relatively simple compared to the adhering of the metallic coil material to the surface of the sponge material which requires the placing of the metal coils and sponge material under pressure with the adhesive on the surface of the sponge to fix the metal coils.

In Figs. 7 and 8, there is shown a form of the invention in which a large mass of the metallic coils 25 have been wadded and adhered to a sponge piece 26 having a handle 27 extending outwardly therefrom. This wadding is compressed so that its coils will interfit with one another and into an elevation the height of one coil as best shown in Fig. 8 and in which two, three, four, or even five or more coils are slid into one another and are so interfitted that all of the coils can be adhered to the surface of the sponge piece by the adhesive layer 28. Certain of the turns of the different coils will be broken away from the adhesive as described above making for a more consolidated and larger mass of coiled material as a larger number of coils are in this way adhered to the mass surface. The broken away or pulled coils are illustrated at 25'. One or several turns of each coil can be broken away and these can be from either of the interfitted coils.

While various changes may be made in the detailed construction, it shall be understood that the invention herein lies basically in the adhering of continuous coils of metallic scouring wire or shaving to the surface of sponge-like material, such as polyurethane in such a manner that with wear certain of the coils may be released or pulled with wear or in use without other coils being released whereby to make for a pulled or elevated and stringy mass of scouring metal wire or shaving more suitable for scouring and sudsing action.

It shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claims.

What is claimed is:

1. A combined sponge and metallic scouring pad comprising a sponge piece having a surface, continuous metallic coils adhered to the sponge surface by their side edges to a greater extent for certain of the coils than for other of the coils disposed therebetween and permitting as the

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metallic mass is worked the release and pulling of the coils to provide an elevated and extended and pulled wire mass, a handle extended into the sponge material by which the pad may be worked, and said sponge member being formed of two parts, one of the parts having the handle, and the other part having the metallic coils, said handle sponge part having an end surface and said metallic sponge part being adhered to the handle sponge part and extended beyond the end surface of the handle sponge part so that it may be folded thereover to provide as the device is used scouring metal upon the end of the handle sponge part.

2. A combined sponge and metallic scouring pad as defined in claim 1, and said metallic scouring coils being interfitted with one another and adhered together to the surface of the supporting member.

3. A combined sponge and metallic scouring pad comprising a sponge piece having a surface, continuous metallic coils adhered to the sponge surface by their side edges to a greater extent for certain of the coils than for other of the coils disposed therebetween and permitting as the metallic mass is worked the release and pulling of the coils to provide an elevated and extended and pulled wire mass, a handle extended into the sponge material by which the pad may be worked, and said sponge member having an extension on its forward end overhanging the forward face thereof and providing a large and extended adhering surface and said metallic coil being adhered to the extended portion of the surface and adapted to provide metallic coils on the end of the sponge as the device is used.

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