June 9, 1925. 1,541,197

G. W. STEIN

COMBINATION BRUSH

Filed July 26, 1924

Fig. 1

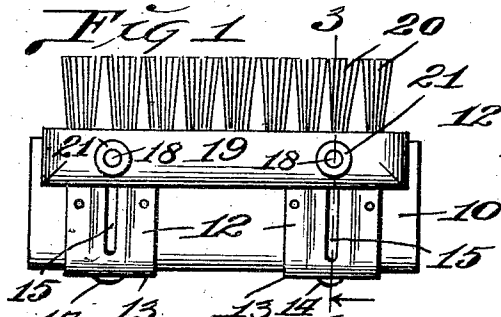


Fig. 3

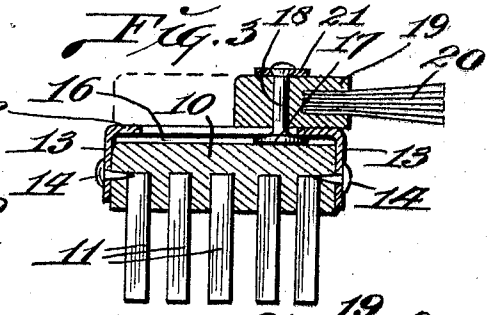


Fig. 2.

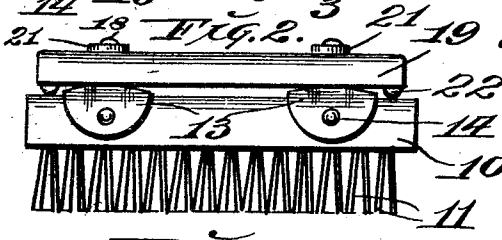


Fig. 4.

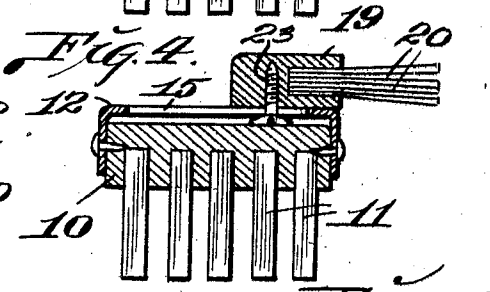


Fig. 6.

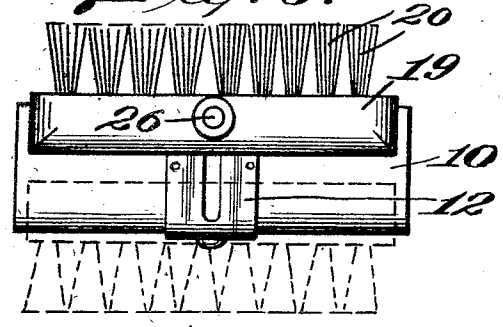


Fig. 5.

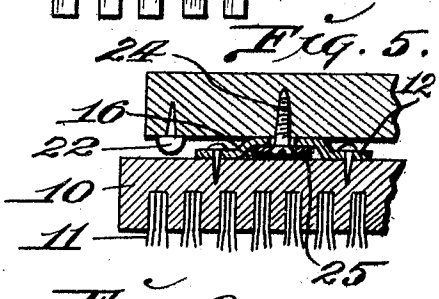


Fig. 7.

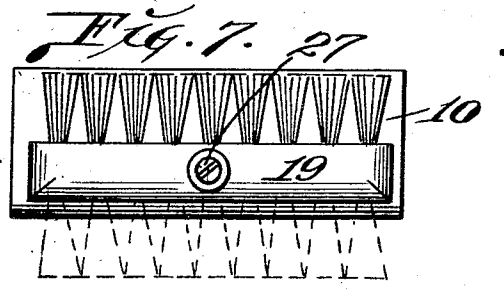


Fig. 9.

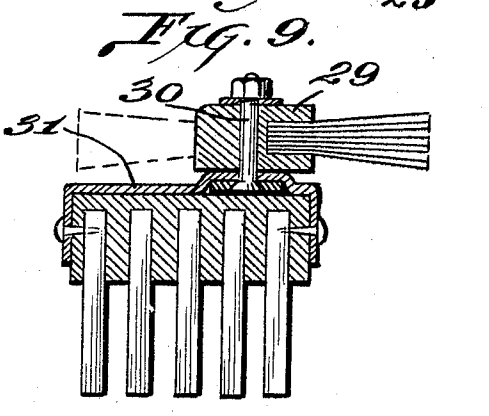
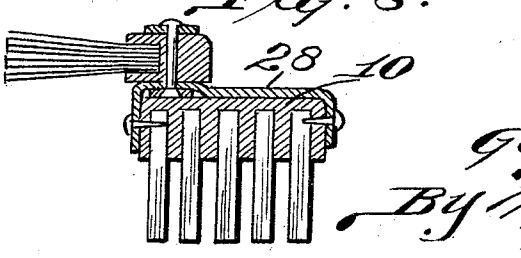


Fig. 8.



INVENTOR

George W. Stein.

By Martin P. Smith, Atty.

Patented June 9, 1925.

1,541,197

UNITED STATES PATENT OFFICE.

GEORGE W. STEIN, OF LOS ANGELES, CALIFORNIA.

COMBINATION BRUSH.

Application filed July 26, 1924. Serial No. 728,483.

To all whom it may concern:

Be it known that I, GEORGE W. STEIN, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Combination Brushes, of which the following is a specification.

My invention relates to a combination brush, and the structure herein illustrated and described is an improvement on the combination brush forming the subject matter of my co-pending application for U. S. Letters Patent filed April 17, 1924, Serial No. 707,083.

The principal objects of my invention are to generally improve upon and simplify the construction of the brush disclosed in my aforesaid application as well as other forms of similar brushes; to provide relatively simple, strong and durable means whereby a brush having relatively soft flexible bristles of fiber, hair or the like, is mounted for sliding or pivotal movement upon the back of a brush having bristles of resilient metal or the like.

Brushes of the type to which my invention relates are especially applicable for brushing and cleaning the surfaces of meat cutting blocks, tables and the like, and it is one of the objects of my invention to combine in a single implement two brushes having bristles of different materials and of different degrees of flexibility.

With the foregoing and other objects in view, my invention consists in the features of construction and combination and arrangement of parts hereinafter more fully described and claimed, reference being had to the accompanying drawings, in which

Figure 1 is a top plan view of a combination brush of my improved construction;

Figure 2 is an elevational view of the brush;

Figure 3 is an enlarged cross section taken approximately on the line 3—3 of Figure 1;

Figure 4 is a cross section similar to Figure 3 and showing a modified arrangement for mounting the smaller brush upon the back of the brush having the relatively heavy bristles;

Figure 5 is a detail section showing a modified form of sliding connection between the brush backs;

Figure 6 is a plan view of a modified form of the brush in which the relatively light brush is arranged for both sliding and pivotal movement upon the heavier brush;

Figure 7 is a plan view of a further modified form of the combination brush;

Figure 8 is a cross section similar to Figures 3 and 4, and showing a modified arrangement of connecting the backs of the two brushes;

Figure 9 is a cross section similar to Figures 3 and 4, and showing a modified arrangement of the pivotal connection between the two brush backs.

Referring by numerals to the accompanying drawings, and particularly to the construction illustrated in Figures 1 to 3, inclusive, 10 designates a brush back, preferably of wood, having on one of its wider faces a field of bristles 11 of resilient metal. These metal bristles may be formed from narrow strips or bands of resilient sheet metal or they may be formed of wire cut into sections of proper length.

Overlying the upper surface of the brush back 10 and transversely disposed thereupon are plates 12, preferably formed of sheet metal, the end portions 13 thereof being bent downward onto the side edges of the brush back and these downwardly bent ends are secured to the brush back in any suitable manner, but preferably by small nails or screws, such as 14. The plates 12 are provided with centrally arranged slots 15, and the material in said plates to the sides of said slots is elevated to provide narrow spaces 16 between said plates and the upper surface of the brush back 10.

These narrow spaces are formed for the reception of the heads 17 of rivets 18, which latter pass upward through a relatively narrow brush back 19 of wood or analogous material. Projecting from one side face of this brush back 19 is a series of tufts of bristles 20 of relatively soft flexible material, such as fiber, hair or broom straw. The upper ends of the rivets 18 project slightly beyond the upper surface of the brush back 19, and said projecting ends are riveted into washers 21. Seated in the under face of the end portions of brush back 19 are pins or studs having rounded heads 22, which latter are adapted to ride on the upper surface of brush back 10 when brush back 19 is moved transversely thereupon.

In the form of brush just described, the brush back 19 having the relatively soft bristles is mounted so as to slide freely across

the brush back 10, and when moved to one edge thereof, as illustrated in Figures 1 and 3, the bristles 20 carried by the brush back 19 project beyond the corresponding edge of brush back 10, thereby enabling the relatively soft bristles to be used in brushing the surface of a meat cutting block or the like. When brush back 19 is moved to a position adjacent to the opposite edge or side of brush back 10 as shown by dotted lines in Figure 3, said brush back 19 and bristles 20 lie entirely within the space bounded by the edges of the brush back 10, so that the latter may be manually engaged and readily manipulated so as to cause the free ends of the metal bristles 11 to engage the surface to be cleaned.

In the modified construction illustrated in Figure 4, the brush back 19 carrying the relatively soft bristles 20 is retained for sliding movement upon the heavier brush back 10 by means of screws 23 that pass upwardly through the slots 15 in plates 12, the threaded portions of said screws being seated in brush back 19.

In the modified construction illustrated in Figure 5, the head of a screw 24 that passes through the slot in plate 12 is engaged in a washer 25, the latter being free to slide through the narrow space 16 between said plate 12 and the brush back 10.

In the modified construction illustrated in Figure 6, a single slotted plate 12 is arranged transversely across the center of brush back 10 and the lighter brush back 19 is arranged to slide and pivot upon said slotted plate 12 by means of a rivet or bolt such as 26. In this construction, the relatively soft bristles carried by the brush back 19 may project from either side of the brush back 10, as shown by solid and dotted lines in Figure 6.

In the modified construction illustrated in Figure 7, the lighter brush back 19 is connected to the heavier brush back 10 by means of a pin or screw, such as 27, and thus the lighter brush back 19 may be pivotally swung around from an out of service position on the heavier brush back 10, as shown by solid lines in Figure 7, to a position for use as illustrated by dotted lines in said figure.

In Figure 8 the brush having the relatively soft bristles is pivotally connected to a strap 28 that extends transversely across the central portion of the heavier brush back 10, and thus the lighter brush may be pivotally swung or reversed when shifted from one position to another.

In Figure 9, the brush back 29, having the soft flexible bristles, is pivotally mounted on a bolt 30, the head of which is positioned beneath a transverse band 31 that is secured to the brush back having the steel or metal bristles.

Thus it will be seen that I have provided a relatively simple, practical and convenient combination brush wherein the relatively narrow brush back carrying soft flexible bristles is mounted for sliding or pivotal movement upon the back of a brush having relatively stiff and heavy bristles of metal or the like, thus producing in one convenient and readily handled structure an implement that can be advantageously used for cleaning and scrubbing all surfaces, and particularly the surfaces of meat cutting blocks and tables.

It will be readily understood that various minor changes in the form, size and construction of my improved combination brush may be made without departing from the spirit of my invention, the scope of which is set forth in the appended claims.

I claim as my invention:

1. The combination with a back member, of a slotted strap transversely arranged on said back member with the ends of said strap secured to said back member, a headed member arranged for sliding movement in the slot in said strap, with the head of said member disposed between said strap and the back member, and a brush back secured to said sliding headed member.

2. The combination with a back member, of a pair of slotted straps having downturned ends secured to the sides of said back member, with the straps arranged in parallel relation and with those portions of said straps adjacent to the slots therein slightly spaced above said back member, headed members arranged for sliding movement through the slots in said straps, with the heads of said members positioned in the spaces between said straps and back member and a brush back secured to said headed members and overlapping said slotted straps.

3. The combination with a back member, of a strap transversely arranged on said back member and having downturned ends that are secured to said back member, a portion of said strap being bent upward so as to be spaced apart from the upper surface of said back member, a headed member passing through said strap with the head of said member positioned in the space between said strap and the back member, and a brush back secured to said headed member and overlying said strap.

In testimony whereof I affix my signature.

GEORGE W. STEIN.