

A. LEVETT.
 BUFFING OR POLISHING WHEEL.
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1,404,620.

Patented Jan. 24, 1922.

Fig. 1. 4

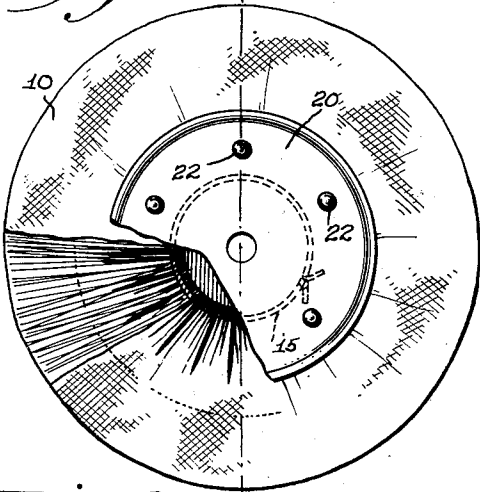


Fig. 5.

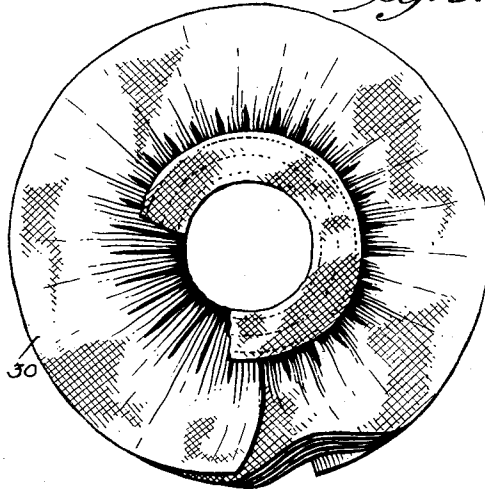


Fig. 2. 4

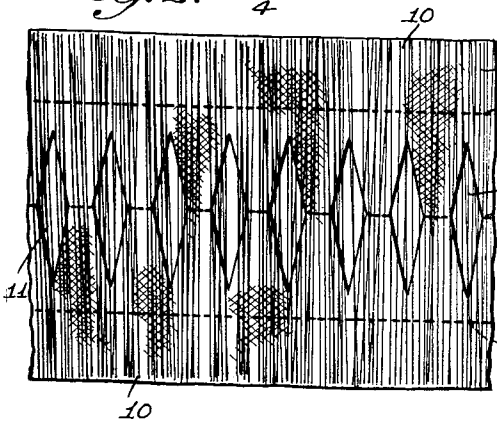


Fig. 6.

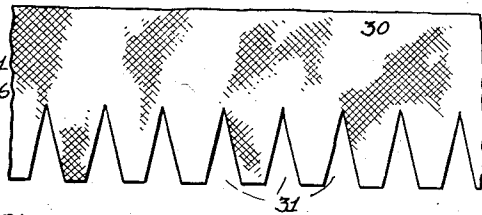


Fig. 3.

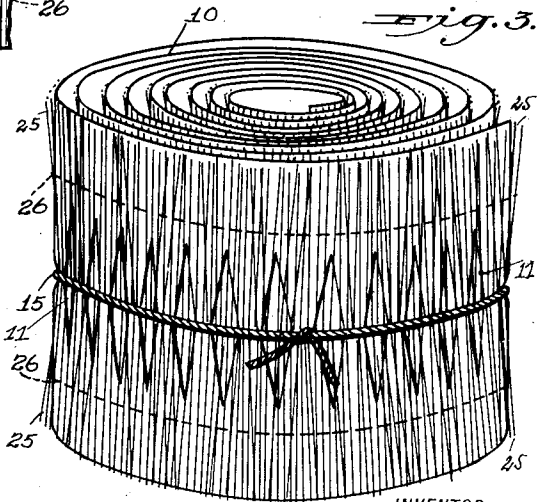
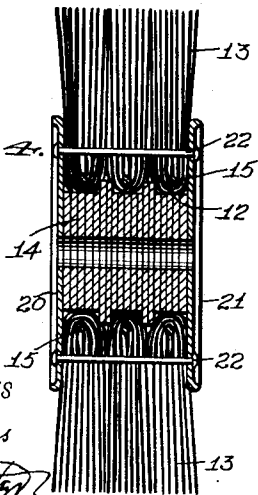


Fig. 4.



WITNESSES

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BUFFING OR POLISHING WHEEL.

1,404,620.

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To all whom it may concern:

Be it known that I, ALEXANDER LEVETT, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Buffing or Polishing Wheel, of which the following is a full, clear, and exact description.

10 The invention relates to buffing or polishing wheels made of cotton or wool fabrics, leather or other material, and its object is to provide a new and improved buffing or polishing wheel which is simple and durable in construction, not liable to fray at the peripheral edge, and arranged to prevent the formation of unduly thick portions at the gathered inner edge of the hub during the manufacture of the buffing or polishing wheel.

Another object is to reinforce the buffing or polishing material by the use of fibers, bristles, fine wires or other filaments.

25 With these and other objects in view, the invention consists of certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims.

30 A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

35 Figure 1 is a face view of the improved buffing or polishing wheel with parts broken out;

Figure 2 is an enlarged face view of a portion of the reinforced material for forming the body of the buffing or polishing wheel;

40 Figure 3 is a perspective view of a strip of reinforced material wound helically to form superimposed layers prior to doubling up the strip and gathering the same along the doubled-up or median line;

45 Figure 4 is a cross section of the improved buffing or polishing wheel on the line 4—4 of Figure 1;

50 Figure 5 is a face view of a modified form of the improved buffing or polishing wheel with part broken out and a peripheral portion slightly turned up to show the several spirally wound layers of the body; and

Figure 6 is a face view of a portion of the

strip of material for forming the body of the buffing or polishing wheel.

55 The body of the buffing or polishing wheel is formed of a continuous bias-cut strip 10 of cloth or other suitable material, and this strip is provided along its median portion with spaced openings 11, preferably of lozenge shape, as plainly indicated in Figure 2. The strip 10 is doubled up widthwise at the openings or cut-out portions 11 to provide a median line or edge 12 and members 13, the outer edges of which form the peripheral face of the wheel. The median line or edge 12 is gathered and wound around a core or disk 14, and a string or cord 15 is laid in the doubled-up portion at the median line or edge 12, as plainly shown in Figure 4. It will be noticed that by having the openings or cut-out portions 11, the act of gathering the doubled-up continuous strip does not unduly increase the thickness of the body or cause puckering at the hub.

75 It will be noticed that by the arrangement described the continuous strip 10 is held in doubled-up and gathered position around the core 14 in a number of superimposed layers by the string or cord 15, and the core 14 is held between two disks 20 and 21 connected with each other by rivets, bolts, stitches or other suitable fastening means 22, as plainly shown in Figure 4.

85 For special purposes the continuous strip 10 is reinforced by the use of fibers, bristles, fine wires or other filaments 25 arranged one alongside the other on one or both faces of the strip 10, and the filaments 25 are fastened in position by suitable means such, for instance, as rows of stitches 26, or glue or cement at the median line, shown in Figure 2. It will be noticed that on doubling the strip 10 the filaments 25 are likewise doubled and the outer edges of the filaments together with the outer raw edges of the members 13 form the peripheral face of the wheel.

90 The buffing or polishing wheel shown in Figures 5 and 6 has its body formed of a continuous bias-cut strip 30 having one edge scalloped or provided with notches 31. The strip 30 is wound spirally and the notched edge is gathered around a core 14 practically in the same manner as above explained relative to the formation of the buffing or polishing wheel shown in Figures 1, 2, 3 and

4. It will be noticed that by providing the gathered edge with notches the body is not unduly increased in thickness at the hub.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A buffing or polishing wheel having a body provided with a wound-up strip of material having a gathered edge provided with notches to prevent puckering.

2. A buffing or polishing wheel having a body made of a spirally wound-up strip of material having its inner edge gathered and provided with notches to prevent puckering, the outer edge of the said strip forming the peripheral face of the wheel.

3. A buffing or polishing wheel, comprising a hub and a body, the body being made of a strip of material having its inner edge

provided with notches to prevent puckering, said strip being gathered, wound and fastened around the said hub to form a plurality of superimposed layers, and reinforcing members between the layers, the outer edge of the strip and the outer ends of the said reinforcing members forming the peripheral face of the wheel.

4. A buffing or polishing wheel comprising a hub and a body, the body being made of a strip of material having its inner edge gathered, wound and fastened around the said hub to form a plurality of superimposed layers, and reinforcing members between the layers, the outer edge of the strip and the outer ends of said reinforcing members forming the peripheral face of the wheel.

ALEXANDER LEVETT.