Aug. 25, 1931. A. LEVETT 1,820,465

BUFFER WHEEL

Filed Sept. 14, 1929

FIG. 2.

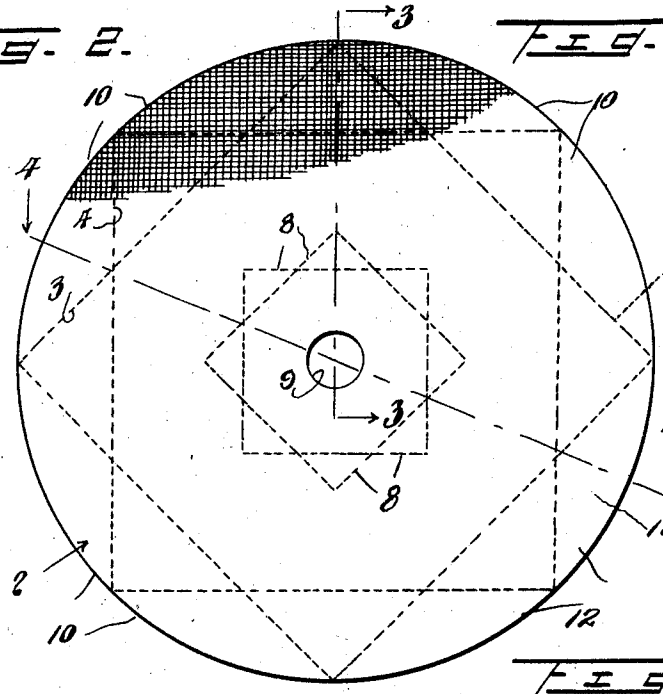


FIG. 3.

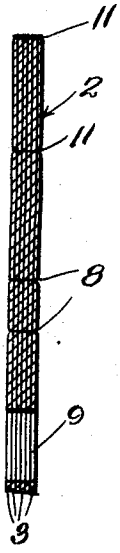


FIG. 4.

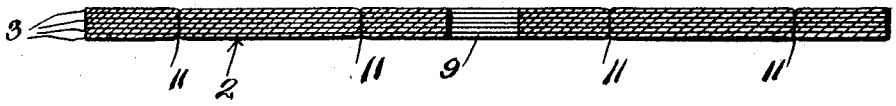
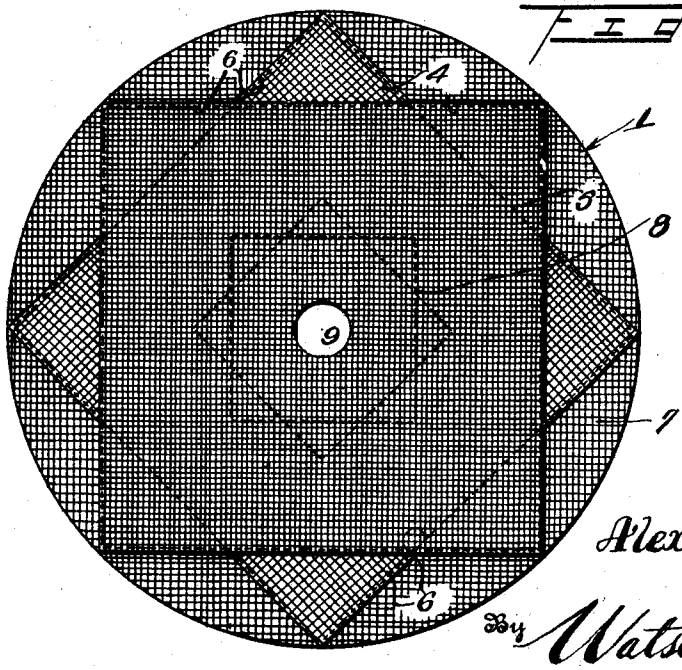


FIG. 1.



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UNITED STATES PATENT OFFICE

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BUFFER WHEEL

Application filed September 14, 1929. Serial No. 392,685.

This invention relates to buffers and pertains particularly to improvements in circular cloth buffers.

The primary object of the present invention is to provide a cloth buffer made of a plurality of cloth disks secured or stitched together in such a manner that distortion of the buffer cannot occur as a result of the pull or drag placed upon the bias edges of the disks of which the buffer is made up.

Another object of the invention is to provide a cloth or fabric buffer wheel constructed of a plurality of disk bodies so stitched as to form pockets adjacent the periphery thereof in which the rouge used for polishing operations may collect.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawings forming a part of the present specification with the understanding, however, that the invention is not confined to any strict conformity with the showing of the drawings but may be changed or modified so long as such changes or modifications mark no material departure from the salient features of the invention, as expressed in the appended claims.

Figure 1 is a side elevational view of a polishing wheel constructed in accordance with the present invention;

Figure 2 is a view in side elevation of a modified form omitting the applied squares;

Figure 3 is a sectional view taken upon the line 3—3 of Figure 2;

Figure 4 is a transverse sectional view taken on the line 4—4 of Figure 2.

Referring more particularly to the drawings wherein like numerals of reference indicate corresponding parts throughout the several views, the numeral 1 indicates generally the preferred form of the buffer wheel embodying the present invention. A modified form of this wheel is shown in Figure 2 and is indicated generally by the numeral 2. In each of the forms the wheel is constructed of a plurality of layers or disks 3 of fabric of any suitable character such as cloth or leather, cloth being preferred.

In the construction of the preferred form shown in Figure 1 after the disks have been layed in superposed relation there is applied to each face two cloth squares indicated by the numerals 4 and 5. These cloth squares being arranged so that the edges of one extend obliquely or with respect to the edges of the other forming an eight-pointed star arrangement and as these squares are so cut that each of the side edges is parallel with certain of the threads thereof it will be readily seen that the threads of one square extend on a bias with respect to the threads of the other square and when the two squares of cloth are secured to a side of the disk or wheel the threads of the square abutting the wheel are arranged to extend upon a bias with respect to the threads of the adjacent wheel disk as is clearly shown in Figure 1.

Each of the squares 4 and 5 of material are stitched along the four edges thereof as indicated at 6 so that in the finished buffer wheel the disk sections 3 will be formed to provide a plurality of pockets 7 which open outwardly from the periphery of the wheel. These pockets catch the polishing rouge and prevent the same being wasted thus making it possible to perform extensive polishing operations without the use of a great amount of polishing material.

If desired the central part of the wheel may be stitched along the lines 8, which lines extend parallel with the edges of the disks 4 and 5 and the central part of the disk is provided with an aperture 9 to receive a holding bolt or screw by means of which the disk is secured to a suitable rotating support such as a lathe or the like.

In the modified form shown in Figure 2 the disks 10 are formed in the same manner as in Figure 1 and while they are stitched together along the lines 11 so as to form the design of an eight-pointed star and also to form rouge trapping pockets 12, the squares 4 and 5 are dispensed with.

From the foregoing description it will be seen that by applying the squares 4 and 5 to the fabric wheels as shown in Figure 1 the bias edges of the disk bodies will be prevented from stretching out of shape and making the wheel distorted and substantially the same

result is obtained by stitching the disks to form the eight-pointed star design without the use of the squares as is obtained by using the squares.

Having thus described my invention, what I claim is:—

1. A buffer wheel, comprising a plurality of cloth disks arranged in side by side relation, applied cloth squares upon each side of the wheel arranged to have the threads thereof extend on a bias to the threads of the adjacent disk, and a second cloth square applied over each of the first mentioned squares and arranged to have the threads thereof extend parallel to the threads of the adjacent disk, said squares being secured to the wheel by stitching extending along each of the four edges thereof.

2. A buffer wheel, comprising a plurality of cloth disks arranged in side by side relation and bodies applied to each of the side faces of the wheel each comprising a pair of square cloth disks arranged to form an eight-pointed star, each of the points terminating at the periphery of the wheel, and one of the squares of each of the bodies being arranged to have the threads thereof extend on a bias to the threads of the adjacent disk.

In testimony whereof I hereunto affix my signature.

ALEXANDER LEVETT.