

J. L. SMALL.
 BUFFING ROLL.
 APPLICATION FILED APR. 19, 1916.

1,217,848.

Patented Feb. 27, 1917

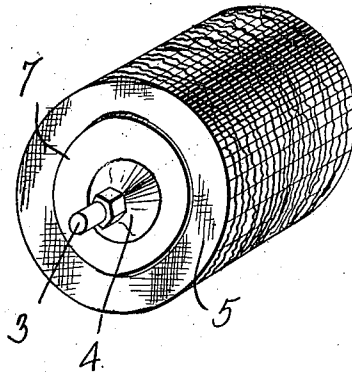


Fig. 1.

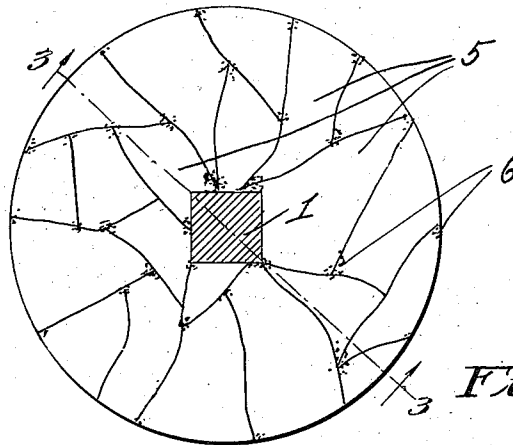


Fig. 2.

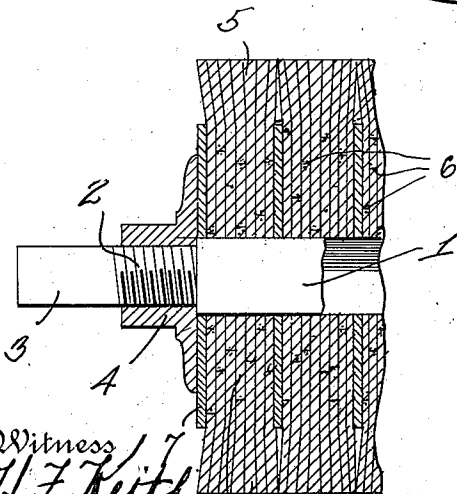


Fig. 3.

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JOSEPH L. SMALL, OF ELWOOD, INDIANA.

BUFFING-ROLL.

1,217,848.

Specification of Letters Patent.

Patented Feb. 27, 1917.

Application filed April 19, 1916. Serial No. 92,233.

To all whom it may concern:

Be it known that I, JOSEPH L. SMALL, a citizen of the United States, residing at Elwood, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Buffing-Rolls; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in buffing rolls and the principal object of the invention is to provide a buffing roll which is particularly adapted for use for buffing tin plates.

Another object of the invention is to provide a buffing roll which is composed of a plurality of scraps of fabric so as to effect a considerable saving in the manufacture of wheels of this type.

A further object of the invention is to provide a wheel in which the fabric scraps are firmly attached together by a suitable non-organic adhesive which when the wheel is rapidly rotated against the material being buffed becomes slightly softened so that the polishing material instead of being rubbed or brushed from the surface of the metal being polished will be gathered and held by the wheel or roll.

Still another object of the invention is to provide a roll which may be pressed together so that the roll will be of equal density throughout thereby insuring the proper polishing operation of the device throughout its entire length.

Still another object of the invention is to provide a roll which may be pressed into forming a suitable mold by the placing of the scrap in the mold and the coating of adjacent spaces with a suitable wax or waxes and pressing the whole so as to form a mass of equal density which when operated under working conditions will leave no undesirable and objectionable deposit on the surface of the material.

A still further object of the invention is to provide a process for using the scrap and waste cut from buffing rolls used in the ordinary manner.

As another object the invention comprehends the use of such scrap for manufacturing the rolls thereby materially reducing the cost of production.

With these and other objects in view, the

invention consists in the novel combination and arrangement of parts which will be fully set forth in the following specification and accompanying drawings, in which:—

Figure 1 is a perspective view of the roll constructed in accordance with this invention.

Fig. 2 is a transverse sectional view on an enlarged scale through Fig. 1, and

Fig. 3 is a longitudinal sectional view on line 3—3 of Fig. 2.

Referring to the drawings 1 designates the shaft on which the device is mounted which consists of a central squared portion provided at opposite ends with the threaded extension 2. Suitable cylindrical extensions 3 project from the ends of the extensions 2 and are adapted to be journaled in the bearings or other support in which the roll is mounted. Threaded on the extension 2 are suitable clamping plates 4 which are adapted to engage opposite ends of the roll to securely attach the same to the shaft 1 and prevent endwise movement thereon.

The roll consists of a plurality of scraps of fabric designated by the numeral 5 which are placed within a suitable cylinder or other receptacle together with a suitable adhesive 6 and pressed together to form a mass the periphery of which is relatively soft as in the ordinary type of buffing wheel. It will be understood that in forming the mass suitable disks of straw-board 7 are positioned at spaced intervals within the same and thus the wheel will be reinforced. It will be understood that in the pressing operation various degrees of density of the roll may be had according to the amount of pressure applied and thus buffing rolls for various purposes may be made.

From the foregoing it will be apparent that a roll is provided which may be constructed of scraps of fabric secured together by a suitable adhesive material which when heated by the friction generated by the rapid rotation of the roll becomes slightly softened so that the polishing material placed on the surface of the plate will be gathered by the roll rather than brushed from the surface of the article being polished.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that such changes may be made in the combination and arrangement of parts as

will fall within the spirit and scope of the appended claim.

What is claimed is:—

5 The herein described process of manufacturing buffing rolls consisting of the placing of a plurality of scraps of fabric in a suitable container, the application of an adhesive to said scrap, the placing of straw-board disks at spaced intervals between the scraps

and the compressing of the whole into a 10 mass the density of which may be varied by the amount of pressure.

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

JOSEPH L. SMALL.

Witnesses:

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