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J. J. FIECHTER

BUFFING WHEEL

Filed April 29, 1926

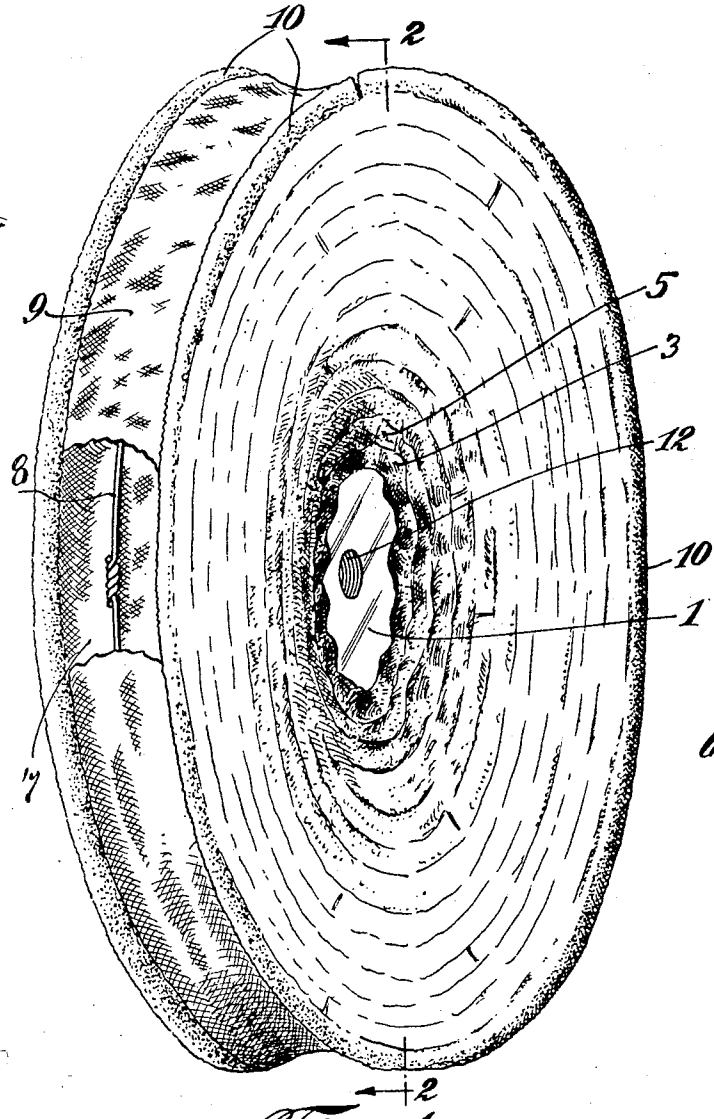


Fig. 1.

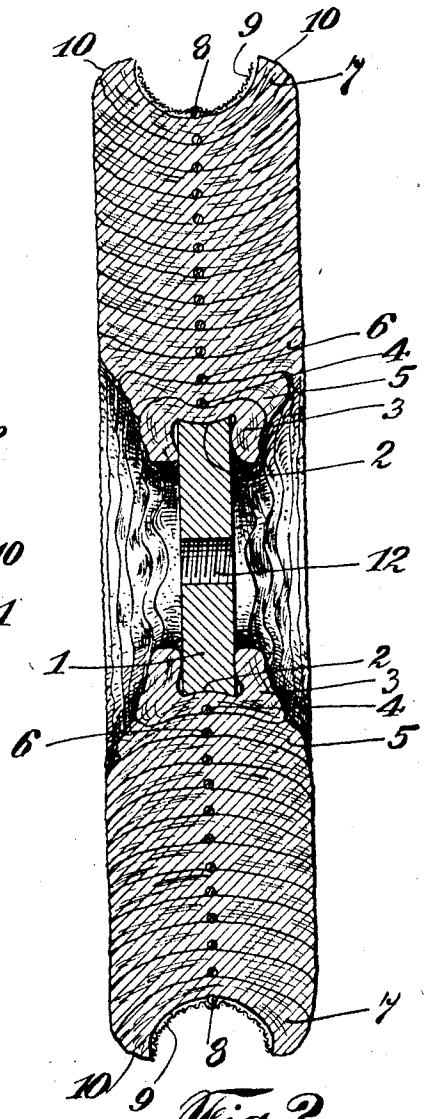


Fig. 2.

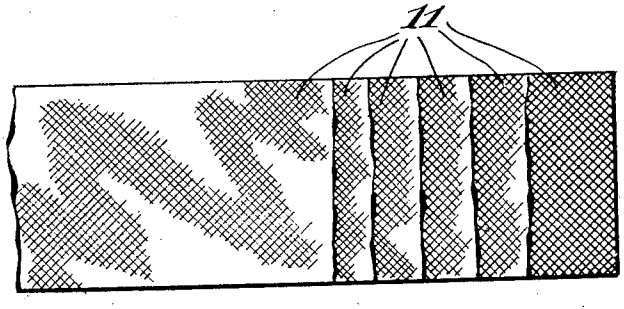


Fig. 3.

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UNITED STATES PATENT OFFICE.

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BUFFING WHEEL.

Application filed April 29, 1926. Serial No. 105,370.

This invention relates to buffing wheels, and more particularly relates to buffing wheels suitable for polishing curved surfaces of sheet metal panels or plates.

The principal object of this invention is to provide a simple and inexpensive buffing wheel, which is durable and more efficient and convenient to use, especially on curved surfaces.

Other objects of this invention will be in part obvious and in part pointed out hereinafter.

In accordance with my invention, the buffing wheel is flexible sidewise, and the side surfaces of the wheel are the buffing surfaces. The outer edges of the periphery also present buffing surfaces which curve from the sides inwardly of the wheel. The abrasive material is applied to the sides of the wheel. With a wheel of this character, the buffing of curved surfaces may be accomplished more quickly, better and more easily than with wheels whose rims present the buffing surfaces.

In order that a clearer understanding of this invention may be had, attention is hereby directed to the accompanying drawings, forming a part of this application and illustrating one possible embodiment of the invention.

Referring to the drawings, Fig. 1 is a perspective view of a buffing wheel embodying the invention; Fig. 2 is a sectional view thereof, and is taken on the line 2—2 of Fig. 1; and Fig. 3 is a diagrammatical plan view of one of the multiplex layers of the buffing material. Similar reference characters refer to similar parts throughout the several views of the drawings.

Referring to the drawings, the wheel comprises a hub 1, which has a groove 2 formed around its periphery. On this hub are bound rings of material, one over the other, and each secured in place by wire drawn tightly thereabout. For instance, as shown, the innermost ring 3 of material is bound in place by wire 4. The next layer 5 is bound in place by wire 6, and so forth, the outermost layer 7 being bound in place by wire 8. If desired, a finishing strip 9 of suitable fabric may be pasted around the layer 7 to cover the wire 8. A wheel of this formation is flexible sidewise, and toward the outer edge of the wheel the fabric tends to curve inwardly, as at 10. The wires securely and tightly hold the fabric on the wheel against becoming loosened therefrom during use of the wheel.

Each layer or ring of material, such as 3, 5 and 7, may be made up of a plurality of strips 11 of cotton or other suitable material and which are preferably cut on the bias.

The hub 1 may be plain or threaded, as at 12. Preferably, the hub is made so thin that, when secured in place by means of a nut, the nut will seat inside of the grinding surfaces of the wheel.

Fig. 2 possibly may show the construction in an ideal form, for in the actual commercial construction all the binding wire rings may not be or remain in the same radial plane, and it is contemplated that the rings of wire may be staggered or otherwise out of exact concentric alignment.

As many changes could be made in the above construction and as many apparently widely different embodiments of this invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

What I claim is:—

1. A buffing wheel, including a hub, rings of material surrounding said hub and disposed one over the other, and means intermediate each ring of material binding said rings on said hub.

2. A buffing wheel, including a hub, rings of buffing material surrounding the hub and disposed one over the other and bound in place by means of separate bands of binding material intermediate adjacent rings of buffing material.

This specification signed this 19th day of April, 1926.

JOHN J. FIECHTER.