No. 734,581. PATENTED JULY 28, 1903.

C. G. LOCKWOOD.

POLISHING WHEEL.

APPLICATION FILED NOV. 6, 1902.

NO MODEL.

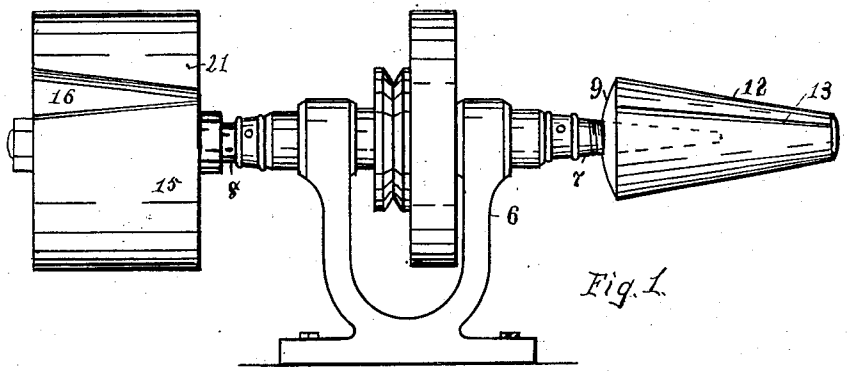


Fig. 1.

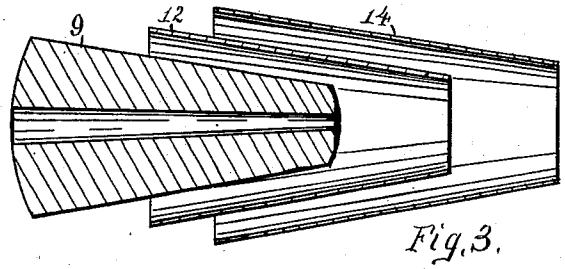


Fig. 3.

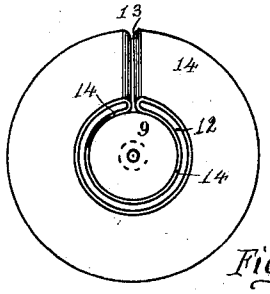


Fig. 2.

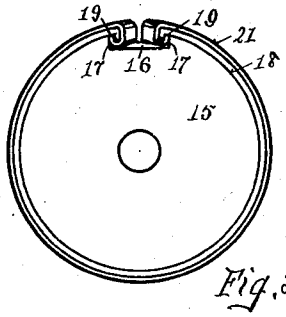


Fig. 5.

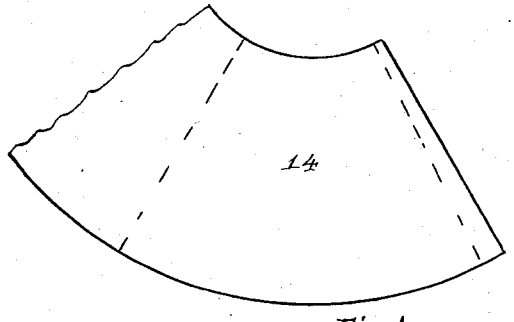


Fig. 4.

WITNESSES,

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THE NORRIS PETERS CO. PHOTO-LITHO. WASHINGTON, D. C.

No. 734,581. Patented July 28, 1903.

UNITED STATES PATENT OFFICE.

CLIFFORD G. LOCKWOOD, OF HAMILTON, OHIO.

POLISHING-WHEEL.

SPECIFICATION forming part of Letters Patent No. 734,581, dated July 28, 1903.

Application filed November 6, 1902. Serial No. 130,220. (No model.)

To all whom it may concern:

Be it known that I, CLIFFORD G. LOCKWOOD, a citizen of the United States, residing at Hamilton, Butler county, Ohio, have invented a new and useful Improvement in Polishing-Wheels, of which the following is a specification.

My invention relates to polishing-wheels of the class used by dentists and others; and the object of my improvement is to provide means to removably secure a polishing fabric, as emery-cloth, to the face of the wheel. This object is attained in the following-described manner, as illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of my improved wheel attached to a dentist's lathe; Fig. 2, an end elevation of a conical-shaped wheel; Fig. 3, a sectional view of the different members disassembled that constitute the wheel; Fig. 4, a diagram with parts removed of the polishing fabric, and Fig. 5 a modified form of construction as applicable to non-tapering wheels.

In the drawings, 6 represents a dentist's lathe of the ordinary construction and provided with a removable tapering spindle 7 on one end and a straight spindle 8 on the other end of its mandrel. Wheel 9, consisting of some suitable material, preferably hard wood, is in the form of the frustum of a cone, having spherical bases, with a tapered axial opening therein, whereby it may be removably secured on the rotative spindle 7. Metal band or cap 12 is formed with open ends and with an open seam or slot 13 parallel with its axis. It corresponds in shape with the peripheral surface of the wheel 9, whereon it is intended to fit snugly and still be easily removable therefrom.

Polishing fabric 14 consists of suitable material—such as emery-cloth, sandpaper, or plain woolen cloth—either with or without buffing-powder and cut to the proper form and size, as shown in Fig. 4, to cover the outer surface of the band 12 and permit its extremities to be inserted inwardly through the open seam 13 and extended in the opposite direction partially around the wheel and under the band, whereby it is maintained in proper position for use. The polishing surface or fabric may be extended a short distance beyond the ends of the band 12 to partially cover the ends of the wheel when folded in contact therewith.

To adapt my improvement to use on plain wheels 15, as shown in Figs. 1 and 5, instead of tapering wheels a tapering notch 16, having abrupt sides 17, is formed across its face parallel with its axis, and the extremities of the non-tapering band 18 are turned inwardly and at the proper taper in relation to each other to correspond with the tapering sides of the notch 16 to form lugs 19, that may be detachably engaged with the sides 17 of the notch, and the band thereby secured on the wheel 15, together with the polishing fabric 21, whose extremities terminate between the respective lugs 19 and side walls 17 of the notch 16, as shown in Fig. 5.

My improvement permits worn polishing or buffing surfaces to be easily and quickly replaced with new and to provide for interchangeability of surfaces or fabrics of different polishing or buffing texture, even to the extent of the use of coarse sandpaper, which may be used for grinding to a limited extent.

Having fully described my improvement, what I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. As a new article of manufacture, a taper wheel provided with a removable metal band having an open transverse seam, substantially as described and for the purpose specified.

2. The combination with a wheel in form the frustum of a cone with a spherical base and containing a tapered axial opening in its base, of a metal band encircling the periphery of the wheel and terminating at its ends in an open seam whereby a band of fabric may be secured around the metal band by having its ends terminate through the seam and between the metal band and the wheel.

3. The combination with a wheel, a metal band removably fitted thereon and formed with an open transverse seam, and a band of polishing fabric encircling the metal band and terminating at its ends through the seam and between the metal band and the wheel.

CLIFFORD G. LOCKWOOD.

Witnesses:
W. O. CAMPBELL,
R. S. CARR.