H. LEVINE.

POLISHING MACHINE.

APPLICATION FILED OCT. 4, 1913.

1,104,684. Patented July 21, 1914.

Fig. 3.

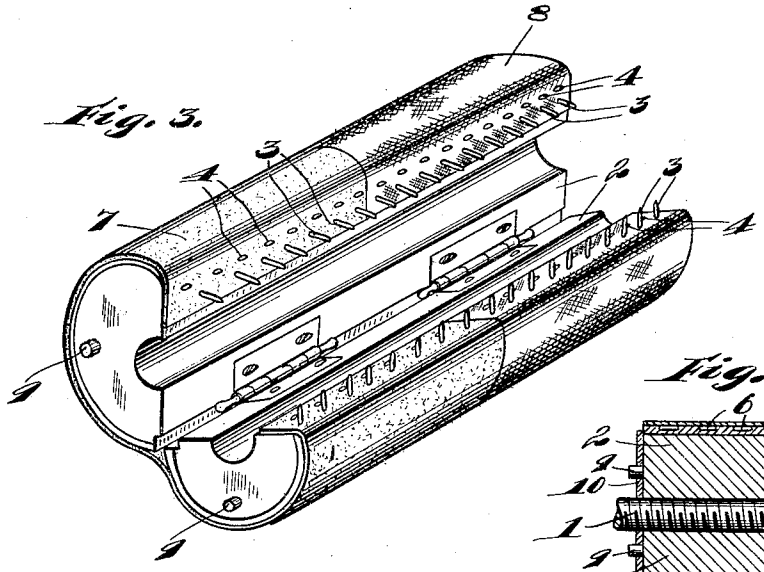


Fig. 4.

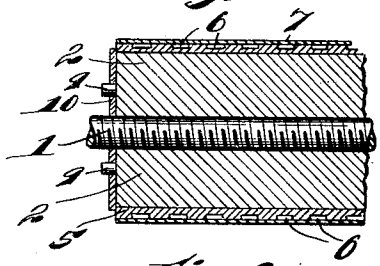


Fig. 1.

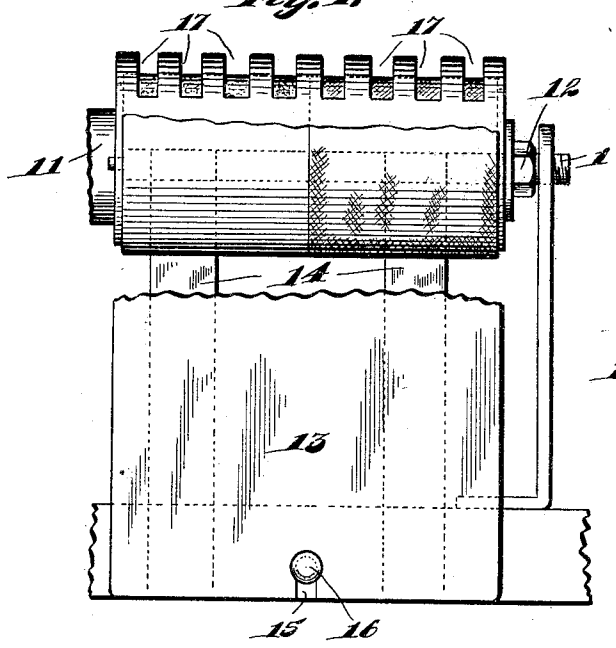
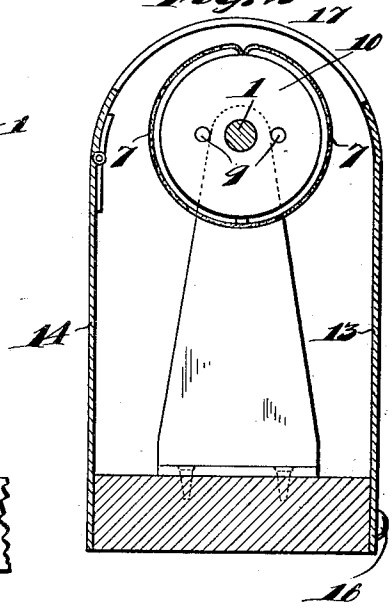


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

HARRY LEVINE, OF CHICAGO, ILLINOIS.

POLISHING-MACHINE.

1,104,684. Specification of Letters Patent. Patented July 21, 1914.

Original application filed July 11, 1913, Serial No. 778,477. Divided and this application filed October 4, 1913. Serial No. 793,357.

To all whom it may concern:

Be it known that I, HARRY LEVINE, a subject of the Czar of Russia, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Polishing-Machines, of which the following is a specification.

My invention relates to improvements in polishing machines especially adapted for use in finishing the edges of leather for making traveling bags and the like, the present application being a division of my prior application for finishing machines, filed July 11, 1913, Serial No. 778,477.

The object of the invention is to provide an improved machine of this character which is of simple construction and efficient in use.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawing forming a part of this specification, and in which,

Figure 1 is a side view of a polishing machine embodying my invention, shown with parts broken away for the sake of clearness, Fig. 2, a vertical section of the same, Fig. 3, a perspective view of a polishing drum employed in the construction, and Fig. 4, a section taken through one end of said drum.

The preferred form of construction as illustrated in the accompanying drawing comprises a threaded spindle 1 having a finishing drum arranged thereon. Said drum is made in two semi-cylindrical parts 2 which are centrally grooved to fit over spindle 1 and are hinged together at one side. The other sides of drum parts 2 are provided with pins 3 and sockets 4, the pins on one part being arranged to fit within the sockets on the other part as indicated. The peripheries of drum parts 2 are covered by a heavy piece of leather 5 or similar material, said leather covering being provided with peripheral grooves 6 as shown. One portion of drum parts 2 is covered by a sheet of sand paper 7 or other suitable abrasive, the ends of said sheet being drawn inwardly over the free ends of the drum parts and impaled over the corresponding ends of pins 3. A sheet of polishing material 8 such as corduroy or other suitable fabric is similarly fastened over the remaining portions of drum parts 2. This arrangement constitutes a simple and efficient means for securing the sheets 7 and 8 to the drum parts.

Each of the drum parts 2 is provided at each end with a projecting pin 9 and plates 10 are provided at each end of said drum parts and are perforated to fit over pins 9 when said drum parts are in closed position over spindle 1. An abutment 11 is arranged on spindle 1 and a nut and washer 12 are provided on said spindle adjacent the opposite end of said drum parts, as indicated. By this arrangement it will be observed that by tightening nut 12 the plates 10 may be securely clamped against the ends of drum parts 2 and the drum parts thus securely locked on spindle 1. By loosening nuts 12 the parts may be readily removed for the insertion of new abrasive and polishing sheets. The drum is protected by means of a housing 13 which is hinged to standards or supports 14 and is provided at its other end with a notch 15 engaging a thumb screw 16 by means of which said housing is removably secured in position over said drum. The housing 13 is provided at its top with a plurality of slots 17 which are arranged in registration with peripheral grooves 6 in the drum and serve to give access for thin strips of material such as leather to said drum. The leather covering 5 furnishes a proper foundation and support for the abrasive and polishing sheets and grooves 6 permit sufficient depression of the abrasive and polishing sheets to impart a nicely rounded edge to articles dressed thereon.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. A machine of the class described comprising a rotatably mounted drum having spaced peripheral grooves therein; a cover-

ing carried by said drum covering said grooves; and a member spaced from said drum and having slots therein adapted to guide work against the portions of said covering over said grooves, substantially as described.

2. A machine of the class described comprising a spindle; a drum mounted on said spindle and having spaced peripheral grooves therein; a yieldable covering secured on said drum over said grooves; and a member spaced from said drum and having work guiding slots therein, each of said slots being in registration with one of the grooves of said drum, substantially as described.

3. A machine of the class described comprising a threaded spindle having an abutment at one end; a nut threaded on the other end of said spindle; perforated plates adjacent said nut and abutment; a drum on said spindle betweeen said plates and formed of two semi-cylindrical parts hinged together at one pair of their adjacent edges; and a pin in each end of each part of said drum engaging corresponding perforations in said plates locking said parts in cylindrical form, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HARRY LEVINE.

Witnesses:
JOSHUA R. H. POTTS,
B. G. RICHARDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."