

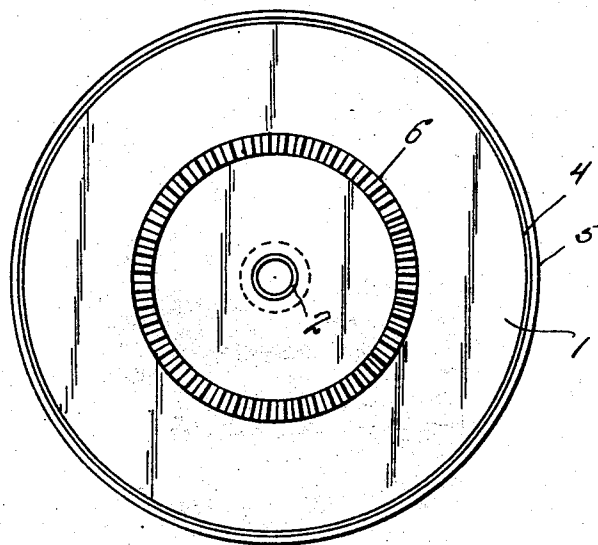
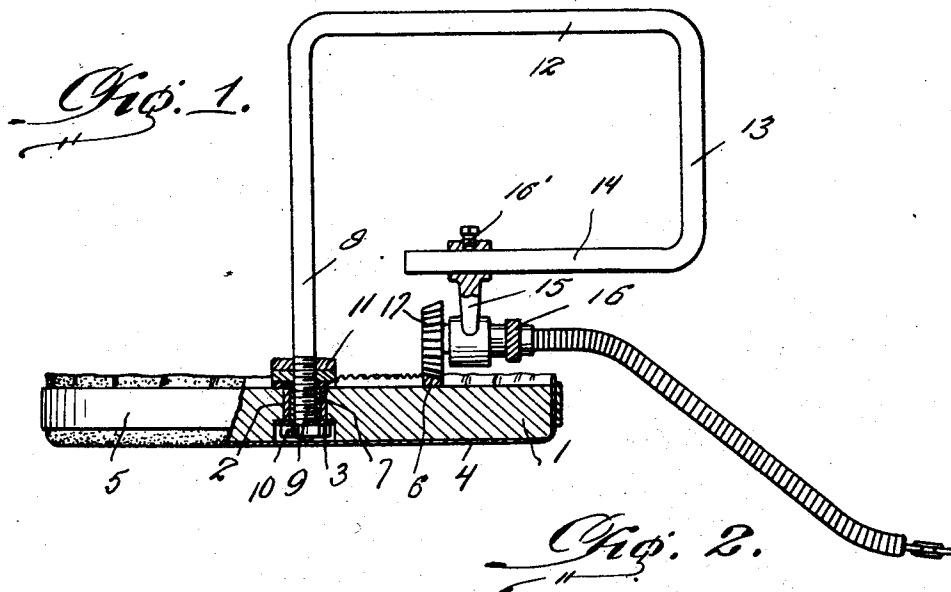
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HAND SANDPAPERING AND POLISHING MACHINE

Filed April 9, 1924



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HAND SANDPAPERING AND POLISHING MACHINE.

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To all whom it may concern:

Be it known that I, VALCOR G. PRINGLE, a citizen of the United States, residing at Jasper, in the county of Jasper and State of Texas, have invented certain new and useful Improvements in a Hand Sandpapering and Polishing Machine, of which the following is a specification.

This invention relates to new and useful improvements in hand operated sandpapering and polishing machines and has for its principal object to provide a simple and efficient device wherein a rotary member is provided for supporting the sandpaper or polishing cloth.

A further object of the invention is to provide a device of the above mentioned character, wherein the handle for the sandpapering and polishing machine provides a means for supporting the power driven means provided for rotating the sandpaper or polishing cloth carrying member.

A still further object of the invention is to provide a device of the above mentioned character, which is of such a construction as to enable the parts to be readily disassembled whenever desired and further permits the sand paper or polishing cloth to be removed whenever necessary in order to replace the worn sand paper or polishing cloth with a new one.

A still further object of the invention is to provide a device of the above mentioned character, which is simple in construction, inexpensive, strong and durable and furthermore adapted for the purposes for which it is designated.

Other objects and advantages of this invention will become apparent during the course of the following description.

In the accompanying drawing forming a part of this specification, and in which like numerals designate like parts throughout the same;

Figure 1 is a side elevation of my improved device with parts shown in section, and

Figure 2 is a top plan view of the disc with the gear wheel thereon.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates a circular disc which is preferably formed of wood, or any other suitable material may be substituted therefor, and I do not wish to limit myself to the particu-

lar kind of material to be used. The disc is provided with a central opening in which is supported a sleeve 2. The opening communicates with an enlarged recess 3 formed in the bottom of the disc 1 in the manner clearly illustrated in Figure 1 of the drawing and the purpose thereof will be presently described. Adapted to extend over the bottom face of the disc 1 is the abrading member 4 which may be either a sandpaper strip or else a polishing cloth and the same is supported in a taut position over the bottom face of the disc by means of the clamping band 5, which fits around the periphery of the band of the disc and clamps the free edges of the abrading member therebetween in the manner clearly illustrated in Figure 1 of the drawing.

Secured to the top face of the disc 1 in any suitable manner and arranged centrally thereon is the gear wheel 6.

Adapted to be disposed within the sleeve 2 is the bushing 7, and journaled in the bushing 7 is the lower end of the handle 8. The lower end of the handle is threaded as shown at 9, and a suitable nut 10 is adapted for engagement therewith and the nut 10 fits in the enlarged recess 3 in the manner clearly illustrated in Figure 1 of the drawing. Suitable jamb nuts such as shown at 11 are threaded on the lower end of the handle 8 and extend above the upper face of the disc 1 in the manner as clearly illustrated in the drawing.

The handle 8 extends upwardly for a suitable distance and is then disposed laterally as shown at 12. The lateral extension 12 terminates into the downwardly extending portion 13, and the downwardly extending portion 13 terminates into the inwardly extending portion 14 which is disposed substantially parallel to the lateral extension 12 and the same terminates at a point adjacent the upwardly extending portion of the handle 8. The inwardly extending portion 14 provides a supporting arm for the bracket 15. The bracket 15 is adapted for longitudinal adjustment on the arm 14 by means of the adjusting and clamping screw 16.

Journaled in the bracket 15 is the forward end of a flexible drive shaft, the opposite end being adapted to be connected to a suitable operating means such as an electric motor or the like (not shown). Mounted on the inner end of the flexible drive

shaft 16 is the cog wheel 17 and the same engages and meshes with the gear wheel 6 in the manner shown in Figure 1.

In operation, the parts are arranged as shown in Figure 1, and when the motor to which the flexible drive shaft 16 is connected, is started, the cog wheel 17 will be rotated and the rotation thereof will simultaneously cause the rotation of the gear wheel 6 and the disc 1 upon which the same is mounted. The person operating the machine holds the handle and the abrading surface 4 is placed against the object to be resurfaced. In this manner the abrading member will be rotated at such a speed as to facilitate the efficient and proper operation of the abrading member and the same will save considerable time, as well as expense.

The simplicity of my device enables the same to be readily disassembled whenever necessary and the parts are further so arranged as not to interfere with the removal of the worn abrading element whenever it is desired to replace the same with a new one. A machine of this character may be used for various purposes such as sandpapering floors or polishing floors and I do not wish to limit myself to the particular use of the device.

By providing a handle construction of the above mentioned character, wherein the same forms a means for supporting a bracket in which is mounted the driving element, the same handle may be used for various sizes of abrading discs and the handle may be easily and quickly attached

to the desired disc without the loss of much time or labor.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claim.

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

An abrading device of the class described, comprising a disc having a central opening provided therein, an abrading member extending over the bottom face thereof, means for securing the abrading member on said disc, a gear wheel for the upper face of said disc, a handle having one end thereof journaled in said opening, said handle comprising an upwardly extending portion, a lateral extension on the upper end of the upwardly extending portion, said lateral extension terminating into a depending portion, and an inwardly extending arm formed on the lower end of the depending portion, a bracket mounted on said arm, said arm extending parallel with the lateral extension and terminating a distance from the upwardly extending portion, a drive shaft journaled in said bracket, and a cog wheel carried thereby meshing with said gear wheel for rotating said disc and the abrading member mounted thereon.

In testimony whereof I affix my signature.

VALCOR G. PRINGLE.