Jan. 23, 1934. S. R. BELL 1,944,395

POLISHING DEVICE

Filed March 17, 1932

Fig. 1.

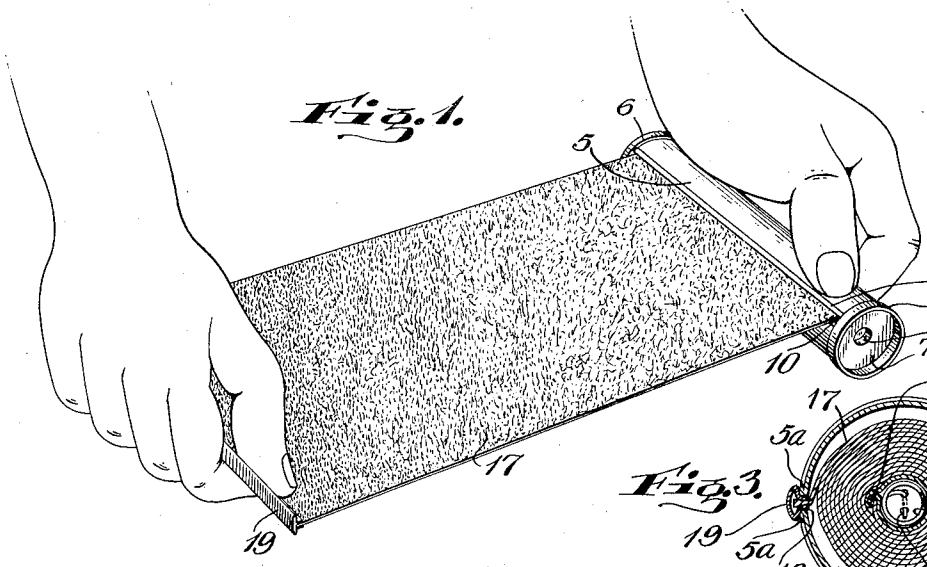


Fig. 3.

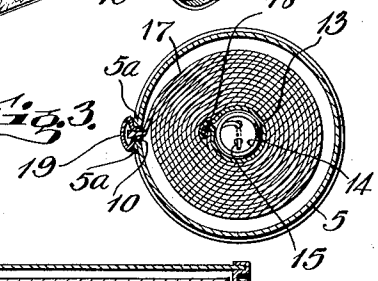


Fig. 2.

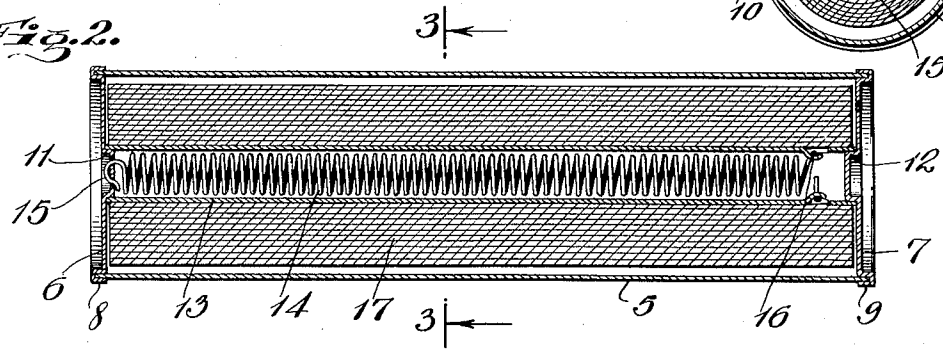
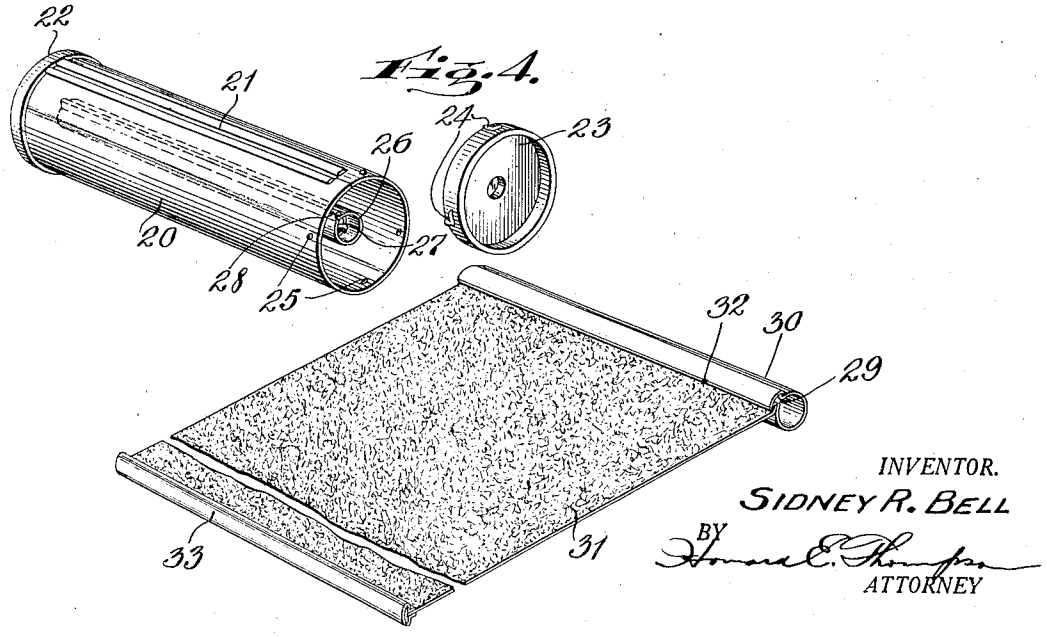


Fig. 4.



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POLISHING DEVICE

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4 Claims. (Cl. 242—107)

This invention relates to devices for polishing various articles and particularly such articles as shoes; and the object of the invention is to provide a cylinder within which is wound a comparatively wide strip of fabric, the outer edge of which protrudes through an elongated slot in the cylinder, by means of which said edge may be grasped to withdraw the strip from the cylinder through said slot or opening in the use of the device; a further object being to provide means centrally of the cylinder to which the inner end of the fabric strip is secured, and further to the provision of a coiled spring attached to said means and part of the cylinder for rewinding the strip within the cylinder after the use of the device; a still further object being to provide the outer free edge of the strip with a finishing bar or finger piece which fits in and forms a closure for the opening or slot in the cylinder when the device is not in use; a still further object being to provide means for detachably mounting the polishing strip in connection with the cylinder to permit the replacement of the strip whenever necessary or desired; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified, which is simple in construction, efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a perspective view illustrating my improved polishing device, showing the fabric strip partially removed from the cylinder thereof.

Fig. 2 is a longitudinal, sectional view through the device.

Fig. 3 is a section on the line 3—3 of Fig. 2; and,

Fig. 4 is a perspective view of the several parts of a modified form of device, with the parts shown in separated position.

It has long been the custom to provide polishing cloths or fabric strips of various kinds and classes for polishing silverware, brass and similar articles, as well as for polishing shoes. In the home, odd pieces of cloth have been used for this purpose, and commercially, the boot black has used cloths of definite length and width for this purpose. No means, to the best of my knowledge, has been provided for packing and storing cloths of this class in a practical, convenient as well as simple and economical manner either in the home or in the commercial use thereof.

It is the distinctive object of my invention to provide a means for accomplishing these results by providing a cylinder of economical construction, with means whereby a cloth may be coiled in the cylinder and quickly withdrawn therefrom when it is desired to use the same. By virtue of the simplicity in the structure of the device, the same may be placed upon the market at a very low selling price within the reach of everyone, and at the same time, means is provided for maintaining the polishing cloth or strip in proper condition at all times, as well as for conveniently storing the same in a polishing stand, box or other container, or in carrying the same about in a traveling bag or case, in which latter case, the cloth is kept from coming in contact with other articles of apparel placed in the traveling bag. It will also be understood that the device is comparatively small in size, and may be conveniently carried in the pocket without danger of soiling the pocket, and yet, a means is provided for polishing the shoes from time to time during a day's travel.

The device as shown in Figs. 1 to 3 inclusive consists of a tubular cylindrical casing 5, which may be termed a cylinder, closed at its ends by caps 6 and 7, having annular channels 8 and 9 in which the ends of the cylinder are secured. By reason of this construction, it will be understood that the cylinder 5 may be formed from a sheet of material.

The ends of this sheet are spaced apart to form longitudinally of the cylinder an opening 10 having rounded side walls formed by turning the ends of the sheet forming the cylinder 5 back on itself as indicated at 5*a*, note Fig. 3. The caps 6 and 7 have centrally thereof, inwardly pressed bearing portions 11 and 12, upon which a small tube or shaft 13 is adapted to seat and rotate. A coil spring 14 is arranged in the tube 13, and one end thereof is secured to the cap 6 as seen at 15 and the other end is secured to the tube 13 as seen at 16. Suitable means is provided on the tube 13 for supporting the inner end of a polishing cloth or strip 17 thereto. In the construction shown, the end of the strip 17 is secured to said tube by crimping between a flange on the tube as seen at 18, note Fig. 3 of the drawing. The strip 17 is wound upon the tube 13 within the cylinder 5, and its free end extends through the opening 10 to be engaged by one hand of the operator to permit the withdrawal of the strip from the cylinder against the action of the spring 14. In the construction shown, an elongated bar or finger piece 19 is attached to the outer end of the strip 17 to facilitate this operation and the bar 19 also serves to cover the opening 10 when the strip 17 is entirely wound upon the tube 13 within the cylinder, as clearly seen in Fig. 3 of the drawing.

In Fig. 4 of the drawing, I have shown a slight modification wherein means is provided for quickly attaching and detaching a polishing strip with respect to the cylinder to provide means

for renewing the strip when an old strip has become worn or otherwise rendered useless. In this construction, I provide a cylinder 20 substantially of the same construction as the cylinder 5, having the opening 21 therein, the cylinder being closed at one end by a cap 22 similar in all respects to the cap 6 shown in Fig. 2, whereas the cap 23 is made detachable with respect to the other end of the cylinder by providing bayonet grooves 24 in the periphery of the cap 23 engaging a plurality of pins or beads 25 on the cylinder 20. At 26, I have shown a tube or shaft similar to the tube 13, the spring 27 being coupled therewith and with the cap 22 as shown in Fig. 2. Longitudinally of the tube 26 is an outwardly projecting key rib 28 adapted to fit in a corresponding groove 29 formed in a supplemental tube 30 which is detachable with respect to the tube 26 by longitudinal movement thereon. At 31, I have shown a polishing strip, the inner end of which is attached to the flange portion 32 of the supplemental tube 30 as clearly seen. The outer end of said strip has a bar 33 similar to the bar 19.

The use of both forms of devices will be the same, and it will be understood that normally, the strip or cloth is contained within the cylinder by the action of the spring employed. When it is desired to use the device, the bar 19, 33, is engaged in one hand and the cylinder grasped in the other hand and the cloth pulled out from the cylinder to the desired extent to permit the use thereof for polishing purposes. When used, all that is necessary is to release the bar 19 and the spring will automatically return the strip to the fully wound position within the cylinder. The type of construction shown in Fig. 4 is only desirable where a more expensive cylinder is employed, that is to say, in the material used in constructing the cylinder. When cheaper materials are used, the entire cost will be so small as not to warrant replacement of the fabric strip alone. In this connection, it will be understood that the device may be made up of metal, rubber, celluloid or any other suitable material. In like manner, I am not limited to the use of a polishing cloth or fabric strip, as strips of other material for other uses may be employed. It will be understood that I am not necessarily limited to the use of the spring for rewinding the strip within the drum, as other means may be provided for this purpose, and various other changes in and modifications of the construction herein shown and described may be made within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

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

1. A device of the class described comprising an elongated, cylindrical body consisting of a sheet of material fashioned into cylindrical form and disk-shaped end walls formed from sheet material, the peripheral edges of said walls being fashioned to form channels in which the ends of said cylinder are placed and secured, the adjacent edges of said cylinder sheet being spaced apart to form a longitudinal opening therein, said end walls having centrally thereof, inwardly pressed bearing portions, a tubular shaft mounted on the bearing portions of said end walls and rotatable thereon, a strip of material coupled with the shaft and coiled thereon within said cylinder, the free end of the strip extending through the opening in said cylinder, and a coiled spring in said shaft, one end of which is attached to one of said bearing portions and the other end to said tubular shaft for supporting the strip in fully wound position on said shaft and within the cylinder.

2. A device of the class described comprising an elongated, cylindrical body consisting of a sheet of material fashioned into cylindrical form and disk-shaped end walls formed from sheet material, the peripheral edges of said walls being fashioned to form channels in which the ends of said cylinder are placed and secured, the adjacent edges of said cylinder sheet being spaced apart to form a longitudinal opening therein, said end walls having centrally thereof, inwardly pressed bearing portions, a tubular shaft mounted on the bearing portions of said end walls and rotatable thereon, a strip of material coupled with the shaft and coiled thereon within said cylinder, the free end of the strip extending through the opening in said cylinder, a coiled spring in said shaft, one end of which is attached to one of said bearing portions and the other end to said tubular shaft for supporting the strip in fully wound position on said shaft and within the cylinder, and the end walls of the device being set inwardly of the channel edges thereof.

3. A device of the class described comprising an elongated, cylindrical body consisting of a sheet of material fashioned into cylindrical form and disk-shaped end walls formed from sheet material, the peripheral edges of said walls being fashioned to form channels in which the ends of said cylinder are placed and secured, the adjacent edges of said cylinder sheet being spaced apart to form a longitudinal opening therein, said end walls having centrally thereof, inwardly pressed bearing portions, a tubular shaft mounted on the bearing portions of said end walls and rotatable thereon, a strip of material coupled with the shaft and coiled thereon within said cylinder, the free end of the strip extending through the opening in said cylinder, a coiled spring in said shaft, one end of which is attached to one of said bearing portions and the other end to said tubular shaft for supporting the strip in fully wound position on said shaft and within the cylinder, and the shaft having an outwardly projecting longitudinal flange, to which the inner end of said strip is secured.

4. A shoe polishing device of the class described comprising an elongated tubular body having a longitudinal slit or opening therein, and end walls for closing the ends of said body, said end walls having inwardly extending central bearing portions fashioned from the material thereof, a tubular shaft in said body and rotatably mounted on said bearing portions, a coupling flange on said shaft, a strip the inner end of which is secured to said flange, said strip being wound on the shaft and the free end extending through the slit of said tubular body, means on the free end of the strip for supporting the same outwardly of the slit of said body, and a coiled spring mounted in said tubular shaft and one end of which is attached to one end of said shaft and the other end is coupled with the bearing of the cap at the other end of the shaft, said spring normally serving to support the strip fully wound upon the shaft within said tubular casing.

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