Nov. 13, 1928. 1,691,418

C. F. WHITE

SANDPAPER HOLDER

Filed April 29, 1927

Fig. 1.

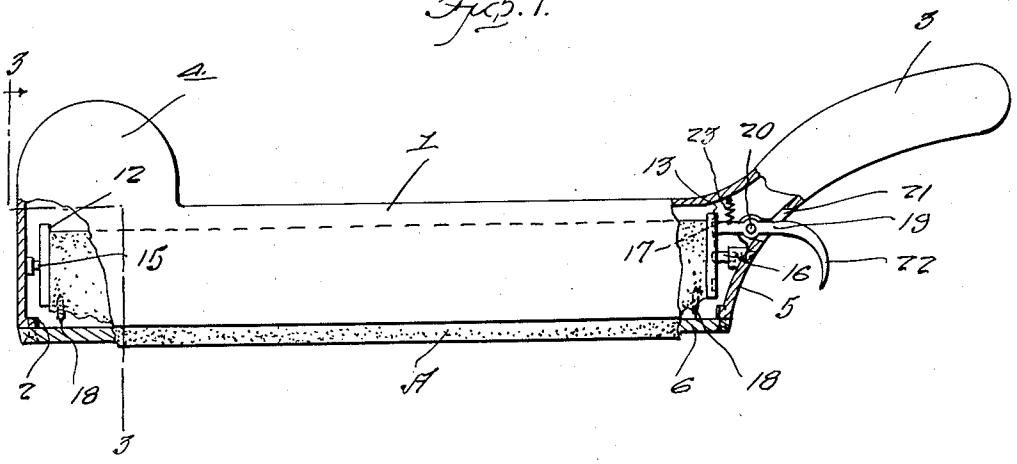


Fig. 2.

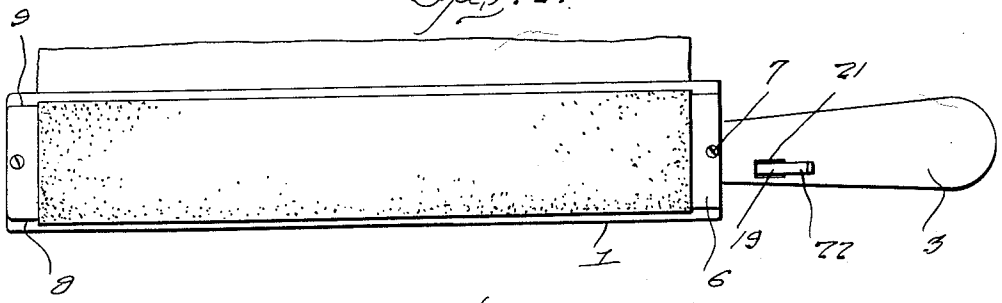


Fig. 3.

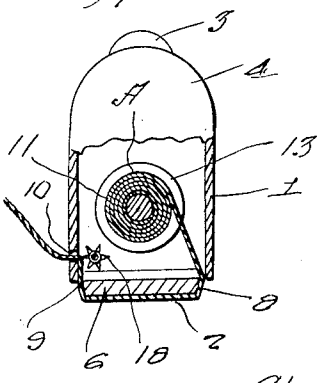
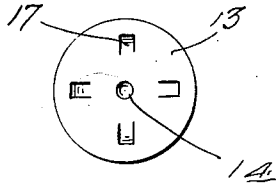


Fig. 4.



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SANDPAPER HOLDER.

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The present invention relates to improvements in sandpaper holders and has for its principal object to provide a device which includes the provision of a roll of sandpaper arranged within a casing or housing, the free end portion of the sandpaper adapted to extend across the bottom of the housing to provide a sandpapering surface, the strip being adapted to be unrolled as the abrasive surface of the sandpaper disposed across the bottom of the casing becomes worn whereby a new sandpapering surface is disposed across the bottom of the casing thus saving considerable time and labor.

A further object is to provide a sandpaper holder wherein means is provided for holding the free end portion of the sandpaper strip taut, additional means being provided for locking the rotatable roller on which the roll of sandpaper is wound against rotation, said last mentioned means being adapted to be actuated when a new sandpapering surface is to be disposed across the bottom of the casing.

A further object is to provide a sand paper holder of the above mentioned character wherein the casing is open at its bottom and the cover therefor comprises a file blade, thus permitting the use of the holder as a file when the sandpaper roll is removed from the casing.

A still further object is to provide a sand paper holder of the above mentioned character which is simple in construction, inexpensive, strong and durable and further well adapted to the purpose for which it is designed.

Other objects and advantages of the invention will become apparent from the following description taken in connection with the accompanying drawing.

In the accompanying drawing forming part of this application:

Figure 1 is a side elevation of the device embodying my invention, parts thereof being broken away.

Figure 2 is a bottom plan view thereof.

Figure 3 is a vertical sectional view taken approximately on the line 3—3 of Figure 1 looking in the direction of the arrows, and

Figure 4 is a detail of the rear disc for disclosing the ratchet teeth formed in the outer face thereof.

In the drawing wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates a substantially rectangular shaped casing or housing, the same being preferably formed of metal. The bottom of this housing or casing is open and formed on the inner face of each end of the casing at the lower edge thereof is the shoulder 2, the same being formed with a centrally arranged threaded opening for a purpose to be hereinafter more fully described. An upwardly curved hollow handle 3 is formed on the rear end portion of the casing or housing 1 as is clearly shown in Figure 1 and the forward end of the casing is formed with a hand rest or knob 4 on the top thereof. The rear end portion 5 of the casing or housing 1 merges with the inner portion of the handle 3 in the manner clearly shown in Figure 1.

The cover plate for the open bottom of the casing 1 is designated by the numeral 6 and the same is preferably a file blade, the teeth on the bottom face of the blade permitting the device to be used as a file when not in use as a sand paper holder in the manner to be hereinafter more fully described. The cover plate is of substantially the same length as the casing 1, but is of a width less than the width of the casing, and the side edges of the blade forming the cover plate are beveled as clearly shown in Figure 3.

Suitable screws or the like such as are shown at 7 extend upwardly through suitable openings provided therefor in the respective ends of the blade and are threaded into the threaded openings provided therefor in the respective shoulders 2, thereby securing the blade on the bottom of the casing or housing in a rigid manner.

As heretofore mentioned, the side edges of the blade are spaced from the adjacent side edges of the casing whereby to provide the passages 8 and 9, respectively, and the purpose thereof will be presently apparent.

The rear side of the casing or housing 1 is formed with a longitudinally extending slot 10 adjacent the lower edge thereof in the manner as clearly illustrated in Figure 3.

Arranged for rotation within the casing or housing 1 is the elongated roller 11, the same carrying on its outer end the discs 12 and 13, respectively. Each disc is formed in the outer face thereof at the center with an indentation or depression 14 and the indentation or depression formed in the outer face of the

forwardmost disc 12 is adapted to receive the free end of the pintle 15 which is fixedly secured on the inner face of the forward end of the casing. A slidable spring pressed pin or pintle 16 is arranged on the inner face of the rear end 5 of the casing 1 and the outer free end of this pin or pintle engages in the indentation or depression formed in the outer face of the rearwardmost disc 13. These pintles cooperate with the depressions in the respective discs to provide bearings whereby the roller 11 may be free to rotate within the casing and by arranging or forming the roller supporting pintles so that one of the pintles is movable, the roller may be readily attached or detached in position within the casing when the cover plate 6 is removed.

The outer face of the rearwardmost disc 13 is further formed with a series of radially disposed notches 17 which gradually decrease in depth toward the center of the disc and the purpose of these notches will be hereinafter more fully described.

A roll of sand paper designated generally by the letter A is wound around the roller 11 and the free end of the roll extends downwardly through the passage 8 across the bottom face of the cover plate 6 so that the abrasive surface of the sand paper will be in position for use. The free end is then passed upwardly through the other passage 9 and the same extends through the slot 10 formed in the rear side of the casing 1. This is clearly illustrated in Figure 3 of the drawing. For the purpose of holding the free end portion of the sandpaper taut, I provide the star shaped wheels 18, the same being supported within the casing 1 adjacent the slot 10 and the edge portions of the sheet of sand paper in any appropriate manner. The teeth of these star wheels will engage the inner surface of the sheet of sand paper in the manner also shown more clearly in Figure 3. It is of course to be understood that the teeth of the star wheels are so spaced as to insure the proper gripping of the sand paper to hold the latter taut.

For the purpose of locking the roller 11 against rotation so that the roll of sand paper carried thereby will not unroll, there is provided the locking dog 19, the same being pivotally mounted at a point intermediate its ends on the inner face of the inner portion 5 of the casing 1 as at 20. The outer end portion of this locking dog extends through a suitable slot 21 provided therefor in the handle 3, and the outer end of this locking dog terminates in a downwardly curved finger engaging portion 22. The inner end of this locking dog is adapted to engage within any one of the notches 17 formed in the outer face of the rearwardmost disc 13, and a spring 23 normally urges the inner end portion of the pawl or dog 19 upwardly so that the same will be disposed in the outermost and deepest portion of the notches 17. The inner end of the locking dog is beveled so that when the finger engaging portion 22 is lifted upwardly, the inner end of the dog will move downwardly so that the same will move out of the notch and thereby permit the roll to be rotated when the free end portion of the sheet of sandpaper which extends beyond the slotted rear side of the casing is pulled outwardly.

In use, the parts are arranged as shown in the drawing, and the portion of the sheet of sand paper which is disposed across the bottom of the cover plate 6 will permit the work to be properly sandpapered. When this portion of the sheet of sand paper has become worn and all of the abrasive surface has been used up, a new sandpapering surface may be readily and easily had by disengaging the inner end of the locking dog or pawl 19 from engagement with the notched disc 13 and the free end of the sandpaper roll is pulled outwardly, thus placing a new strip across the bottom face of the cover plate 6. If the free end portion which protrudes beyond the slotted rear side of the casing becomes too long, the same can be readily torn off.

By removing the sand paper carrying roll from the casing, and again attaching the cover plate forming file blade, the device can be used as a file in a simple and efficient manner.

It will thus be seen from the foregoing description, that I have provided a sandpaper holder which can be readily and easily assembled or disassembled and the same will at all times be positive and efficient in carrying out the purposes for which it is designed.

While I have shown the preferred embodiment of my invention, it is to be understood that minor 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 the invention, what I claim is:

In a device of the class described, an elongated casing having its bottom open, a cover plate of the same length as the casing adapted to be detachably secured on the open bottom of the casing, said cover plate being of width less than the width of the casing whereby the side edges of the cover plate are spaced from the respective sides of the casing to provide passages, one side of the casing being formed with a longitudinally extending slot adjacent its lower edge, a roller journaled for rotation within the casing, a roll of sand paper wound on the roller, the free end of the sandpaper extending downwardly through one passage, across the bottom of the cover plate, upwardly through the other passage, and then through the slot in the side of the casing, means for holding the free end portion of the sand paper taut, an additional means for locking the roller against rotation, said last

mentioned means comprising a disc secured on end of the roller, said disc being formed with a series of radial notches, a pivoted locking dog carried by the adjacent end of the casing, the outer end of said dog extending through a slot formed in said end of the casing, and providing a handle, the inner end of the dog being adapted for cooperation with the notches, and a spring for normally holding the inner end of the dog in engagement with one of the notches.

In testimony whereof I affix my signature.

CHARLES F. WHITE.