HAND SANDPAPER HOLDER

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ATTORNEYS
My invention is a hand sand paper holder in which the operator may engage the holder in his hand, the holder having the sand paper thereon.

An object of my invention is a sand paper holder which the operator may grasp and hold with the palm and the fingers of the hand substantially flat, the holder having sand paper on its lower surface. This gives a position for the hand and the paper substantially the same as that recognized as the best method of holding sand paper in the hand for hand sand papering articles. Thus my holder simulates somewhat the manner of holding sand paper in which the paper is cut in rectangles and diagonally opposite corners are curled inwardly over the little finger and the thumb, this being the manner found most satisfactory for hand sand papering various articles.

A more detailed object of my invention is the construction of a sand paper holder formed of a flat plate shaped rectangular and with the opposite corners curled inwardly and upwardly to form the sides of the device. The paper is placed on the bottom of the plate and curled upwardly over the rounded side edges and then caught by clips or the like, holding the margins of the plate and the margins of the paper together. The palm of the hand and fingers are placed against the upper side of the plate. The little finger is slipped underneath the curl of the plate on one side and the thumb underneath the curl of the plate on the opposite side.

A further object of my invention is the construction of a plate-like holder which may be utilized with standard sheets of sand paper cut into four equal rectangles, and the sheets clamped by suitable clamping devices or clips only at the marginal sides, these marginal sides being diagonally opposite corners curled over the side rim of the metal. A further detailed object is the use of the holder for buffing securing a fabric thereon or felt instead of the sand paper.

My invention is illustrated in the accompanying drawings, in which:

- Fig. 1 is a perspective view of my holder illustrating the manner of grasping same in the hand,
- Fig. 2 is a plan of the holder,
- Fig. 3 is a section of Fig. 2 on the line 3–3 in the direction of the arrows,
- Fig. 4 is a section similar to Fig. 2, showing a buffing cloth mounted on the holder instead of sand paper,
- Fig. 5 is a perspective view of the metal clips utilized to hold the paper on the margins of the holder,
- Fig. 6 is a plan view of the plate with the paper and clips detached therefrom,
- Fig. 7 illustrates a sheet of sand paper.

In constructing my invention I utilize a metal plate designated by the numeral 11. This may be considered as having a web 12 with opposite marginal edges 13 and 14 of longer length than the marginal edges 15 and 16. The plate is curled upwardly at the diametrically opposite corners 17 and 18 and the corners are clipped off in a straight line as indicated at 19. The other diagonally opposite corners 20 and 21 are preferably sharp cornered. The plate is preferably made of a non-rustable metal and a metal having considerable resiliency similar to the construction of putty knives or the like, so that the metal of the web will readily give to conform to the surface of the article being sand papered.

Adjacent the upper side of the holder I preferably use a strip of padding material 22 such as cork or the like. This is curled upwardly under the edges of the curl of the plate as indicated at 23. If desired, this material may be glued or cemented to the top of the plate and also to the curled portion. The sand paper 24 shown in Figs. 2 and 3 is preferably made of a proper size by cutting standard...
ard sheets in four parts, these sheets therefore being the size of the plate and have diagonally opposite corners 25 which fold over the straight marginal edge 19 of the plate. If desired, several layers of sand paper may be placed on the bottom of the plate.

The clamping device or clip 26 is formed of a strip of metal, this having a general S-shape in cross section, with a large bend 27 adapted to fit in the inside of the curl of the plate as indicated at 28. There is a reverse bend 29 in the strip forming the clip of rather sharp curvature, this being adapted to fit over the straight portion 19 of the marginal edge of the plate. This strip has an upper terminating end 30 adapted to extend on the outside of the curled portion of the margins of the plate and grip the sand paper, holding it firmly in place. These clips or clamps are preferably made of resilient metal and are sufficient to hold several layers of sand paper or only one layer as desired by the operator.

In the construction of Fig. 4 I show a buffing cloth 31 which may be of woven fabric or of felted material. This preferably has the corner portions which fit behind or inside of the curl of the plate somewhat chamfered as indicated at 32 to allow the clips to fit snugly in the inside of the curl of the plate. This buffing material takes the place of the sand paper and may be used with any suitable composition to give a buffing or polishing to the work in hand.

In Fig. 1 I illustrated the approved method of grasping the holder, in which it will be seen that the palm of the hand and the fingers are substantially flat against the upper portion of the web part 12 of the plate. The little finger fits under the marginal curl at one edge of the plate and the thumb fits into the marginal edge of the other curl. These curls are positioned substantially in correct relation to the thumb and the little finger by cutting the plate oblong instead of square as indicated by the different dimensions of the sides 13, 14 and 15, 16.

Various changes may be made in the principles of my invention without departing from the spirit thereof, as set forth in the description, drawings and claims.

1. A sand paper holder having a flat metal plate with diagonally opposite corners having an upward and inward curl, sand paper fitted on the bottom surface, and means to secure the paper at the diagonally curled corners, the inside of the curl of the corners being adapted for engagement by the thumb and little finger of one hand of the operator.

2. A sand paper holder as claimed in claim 1, the clamps being somewhat S-shaped, curved to conform to the curl of the plate and the folded edge of the paper.

3. A sand paper holder having a metal plate with diagonally opposite corners having an upward and inward curl, sand paper fitted on the bottom surface, and means to secure the paper at the diagonally curled corners, the inside of the curl of the corners being adapted for engagement by the thumb and little finger of one hand of the operator.

4. A sand paper holder as claimed in claim 3, with means for securing the paper comprising detachable clamps adapted to engage the plate at the curled corners, and the sand paper at the fold over such corners.

5. A sand paper holder having a flat plate formed rectangular with diagonally opposite edges with the corners cut in a straight line, said corners being curled upwardly and inwardly and the sheet of sand paper fitted on the under surface of the plate on the outside of the curled portions and folded over the straight portions of the corners the inside of the curl of the corners being adapted for engagement by the thumb and little finger of one hand of the operator.

6. A sand paper holder as claimed in claim 5, with clamps to secure the paper formed of S-shaped strips of metal having a curved portion to fit inside the curl of the plate and having another curved portion to fit over the straight portion of the corners of the plate and over the outside of the upper portion of the sand paper.

7. A sand paper holder having an oblong rectangular plate of metal having two diagonally opposite corners cut on a straight line, the plate adjacent said corners being curled upwardly and inwardly, and metal clamps adapted to hold a sheet of sand paper on the bottom surface and on the outside of the curled portions of the plate the inside of the curl of the corners being adapted for engagement by the thumb and little finger of one hand of the operator.

8. A sand paper holder as claimed in claim 7, the sheet of sand paper being adapted to be cut in the form of an oblong rectangle with diagonally opposite sharp corners, and an S-shaped metal clamp fitting inside the curl of the metal and on the outside of the sand paper adjacent the sharp opposite corners.

9. A sand paper holder having a flat metal plate with diagonally opposite corners upwardly and inwardly curled, a sheet of sand paper fitted over the bottom surface of the plate and the outside of the curled portions, the curled portions being positioned to allow fitting of the little finger and the thumb of one hand underneath on the inside of the curled portions and the palm on the flat upper surface of the plate.

10. A sand paper holder having a flat substantially oblong rectangular plate of metal with the opposite diagonal corners cut off on a straight line and the plate adjacent.
such corners curled upwardly and inwardly, and a pair of S-shaped metal clamps adapted to secure sheets of sand paper having opposite diagonal corners folded over the straight portions of the corners of the plate at the curl, the curled portions of the plate being positioned whereby the little finger and the thumb of the operator's hand may be fitted inside and partly underneath the plate at the said curled portion.

In testimony whereof I have signed my name to this specification.

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