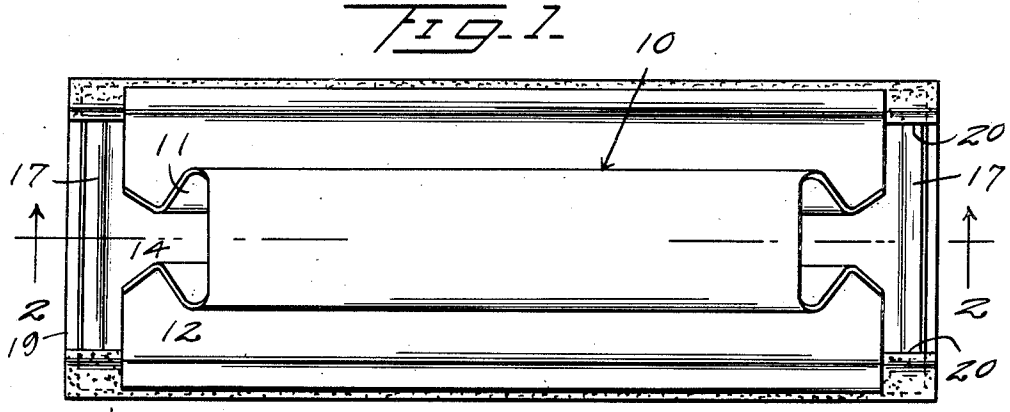
March 27, 1951 J. G. WEIGEL 2,546,245

SANDER

Filed April 15, 1949

FIG. 1.



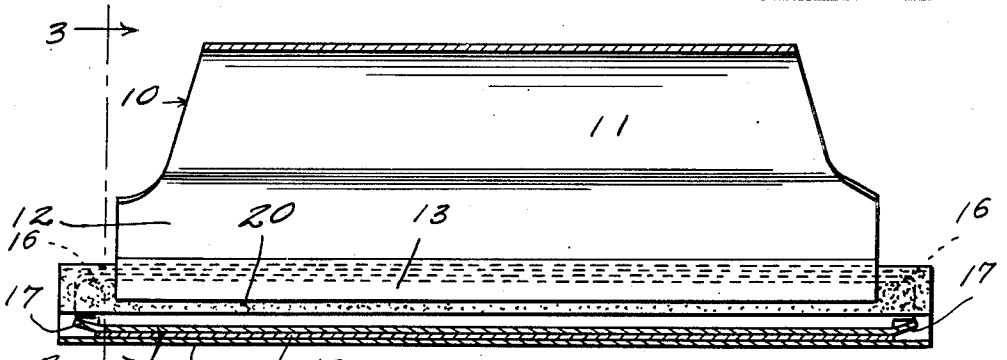


FIG. 5.

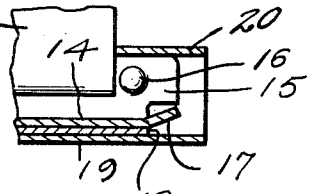


FIG. 2.

FIG. 3.

FIG. 6.

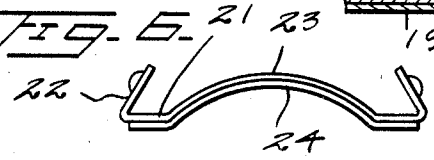
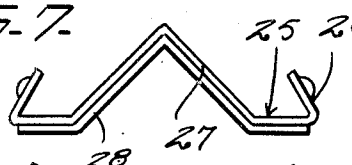
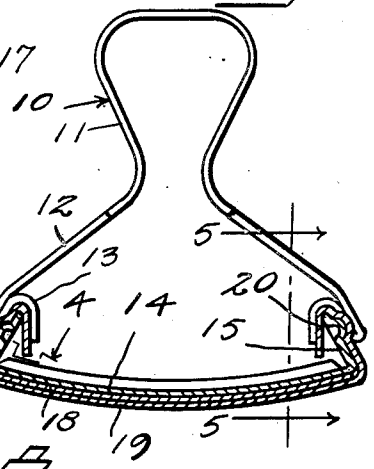


FIG. 7.





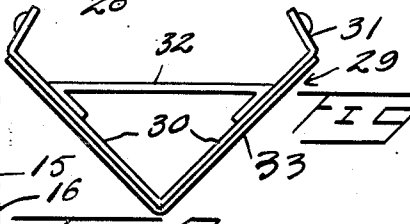


FIG. 8.

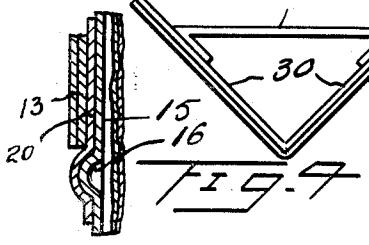


FIG. 4.

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SANDER

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1 Claim. (Cl. 51—187)

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This invention relates to a holder for sandpaper.

An object of this invention is to provide a holder for sandpaper which includes a sheet metal body having a pair of parallel inverted U-shaped jaws within which a pair of upwardly convergent flanges carried by a bottom plate are adapted to be engaged, with the flanges having means at each end thereof to hold the bottom plate against endwise movement.

Another object of this invention is to provide a holder of this kind which is of simple construction and can be formed out of stamped sheet metal.

A further object of this invention is to provide a holder of this kind wherein the bottom plate may be shaped in a manner to conform closely to the shape of the work which is being sanded.

With the above and other objects in view, my invention consists in the arrangements, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claim.

In the drawing:

Figure 1 is a plan view of a sandpaper holder constructed according to an embodiment of this invention,

Figure 2 is a sectional view taken on the line 2—2 of Figure 1,

Figure 3 is a sectional view taken on the line 3—3 of Figure 2,

Figure 4 is a fragmentary sectional view taken on the line 4—4 of Figure 3,

Figure 5 is a fragmentary sectional view taken on the line 5—5 of Figure 3,

Figure 6 is a detail end elevation of a modified form of bottom plate,

Figure 7 is a detail end elevation of another modified form of bottom plate,

Figure 8 is a detail end elevation of another modification of this invention.

Referring to the drawing, the numeral 10 designates generally an elongated handle which is formed of sheet metal and includes a pair of downwardly convergent sides 11 which merge with a pair of downwardly divergent plates or walls 12. The plates or walls 12 have formed on the lower edges thereof inverted substantially U-shaped clamping members 13, the purpose for which will be hereinafter described. A bottom plate 14 of transversely arcuate configuration is provided in the opposite longitudinal edges thereof with a pair of upwardly convergent flanges 15 which are adapted to engage within the clamping member 13 and each flange 15 is

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formed adjacent the opposite end thereof with detents 16 which provide a means for holding the flanges 15 and the bottom plate 14 against endwise movement with respect to the clamping members 13. The bottom plate 14 is formed with upturned opposite ends 17 and the lower side of the bottom plate 14 has secured thereto a cushion member 18. The cushion member 18 may be formed of either rubber, felt or the like and a sandpaper sheet 19 is adapted to engage under the cushion member 18 and the opposite longitudinal edges of the sandpaper 19 are bent about the flanges 15 as shown in Figure 3 and indicated at 20. The reverted or returned edges of the sandpaper 19 are adapted to engage in the clamping members 13 so that the clamping members 13 will firmly hold the sandpaper on the flanges 15 and under the cushion member 18.

Referring now to Figure 6 there is disclosed a modified form of bottom plate where in the plate member 21, which is provided with the upwardly convergent side flanges 22, is formed with a transversely arcuate portion 23 having the concave side thereof lowermost and a cushion member 24 is adapted to be secured to the bottom plate 21 by any suitable fastening means such as adhesive or the like.

Referring now to Figure 7, there is disclosed, a modification of the bottom plate generally designated as 25. The bottom plate 25 is formed with upwardly convergent side flanges 26 and an inverted V-shaped intermediate portion 27. The inverted intermediate portion 27 is formed with right angular sides so that the right angled corner of a work position can be readily sanded. The bottom plate 25 is also provided with a cushion member 28 which may be formed of rubber, fibrous material or the like.

Referring now to Figure 8 there is disclosed another modification of bottom plate generally designated as 29 which is formed with V-shaped walls 30 having extending from the upper divergent edges thereof, upwardly convergent flanges 31. A bracing plate 32 is fixed between the sides of the bottom member 29 and a cushion member 33 is secured in any suitable manner to the outer side of the bottom member 29. It will be understood that if desired, the bottom plate 29 may be formed with a convex wall which may be braced after the manner shown in Figure 8 so that concave surfaces may be readily sanded.

In the use and operation of this device the sandpaper 19 is cut somewhat larger than the width of the bottom member 14 and the longitudinal edges of the paper 19 are then bent up-

wardly and downwardly over the convergent flanges 15. The bottom member is then pressed into the clamping members 13 and it will be understood that the divergent side members or plate 12 carried by the handle 10 are of resilient characteristic and may be biased outwardly so that when the bottom member is engaged with the clamping members the clamping members 13 will firmly hold the flanges of the bottom member in the clamping members 13. The buttons or detents 16 engage in the opposite ends of the clamping members 13 and hold the bottom member against endwise movement relative to the handle 10 and the divergent members 12.

This holder may be stamped or otherwise formed out of sheet metal having a resilient characteristic and where the device is to be used in sanding a flat surface the bottom member, shown in Figure 3, will be used. By providing a slight curvature to the bottom member 14, the sand paper 19 will tend to straighten out the curvature of the bottom member 14 and therefore prevent undue engagement of the opposite longitudinal edges of the bottom member with the work.

I do not mean to confine myself to the exact details of construction herein disclosed but claim all variations falling within the purview of the appended claim.

What I claim is:

A sandpaper holder comprising an elongated handle formed of sheet metal, a pair of angularly inclined side portions diverging from said handle, a substantially U-shaped reverted downwardly opening clamping jaw carried inwardly of the lower edge of each portion, a bottom plate, upturned ends on said bottom plate, a pair of upwardly convergent, resiliently expansible identical flanges carried by the opposite longitudinal edges of said bottom plate and engageable with said jaws interiorly of said angularly inclined portions and a detent adjacent each end of each flange for holding said flanges against endwise movement relative to said jaws.

JOHN G. WEIGEL.

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