Sept. 20, 1949. R. R. KENT 2,482,344

METAL SANDING BLOCK

Filed Nov. 8, 1948

Fig. 1.

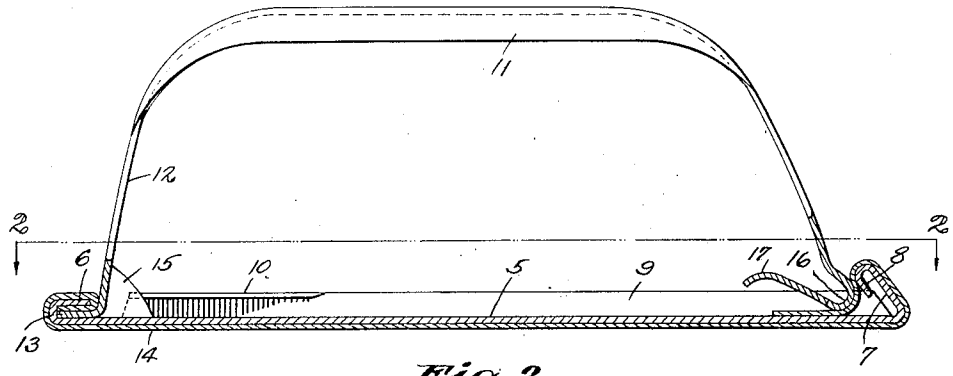
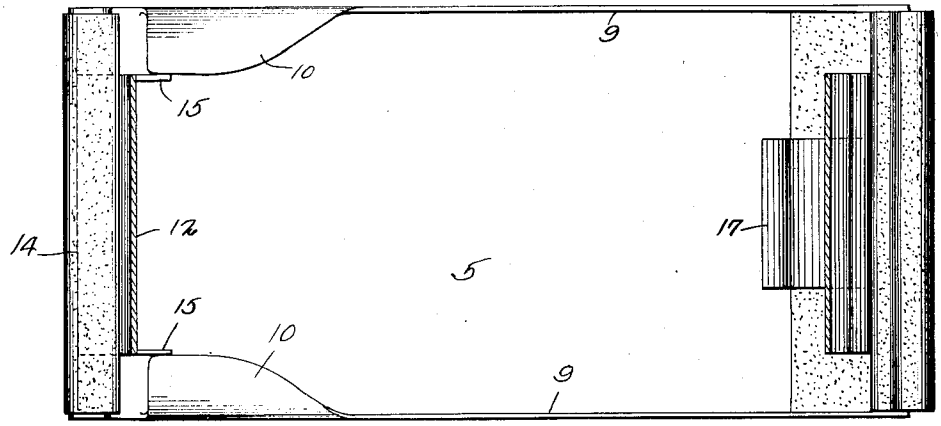


Fig. 2.



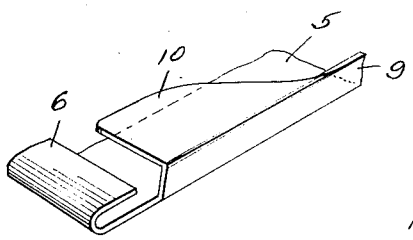


Fig. 3.

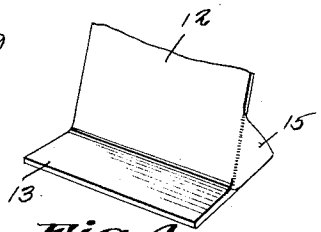


Fig. 4.

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METAL SANDING BLOCK

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3 Claims. (Cl. 51—187)

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This invention relates to sanding blocks used in supporting abrasive strips such as sandpaper, emery paper or the like, the primary object of the invention being to provide a sanding block which will be exceptionally light in weight and easily operated.

An important object of the invention is to provide means for connecting the handle of the block to the base or body portion thereof the handle acting to clamp the sanding or abrasive strip in position over the bottom of the base of the device.

Another important object of the invention is to provide a sanding block which may be operated close to the wall or into corners, the device being operated with either end directed forwardly.

Still another object of the invention is to provide a sanding device of this character including a base plate and a yieldable handle having means to grip the ends of the sanding strip between the base plate and handle, means being also provided for holding the handle centered over the plate at all times.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts, hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing

Figure 1 is a side elevational view illustrating the handle, the lower ends of the handle and base plate of the device being shown in section.

Fig. 2 is a sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a fragmental perspective view illustrating one of the inturned ends of the base plate, with enlargements shown at one end of the device as extending inwardly over the base plate centering the handle of the device.

Fig. 4 is a perspective view illustrating one end of the handle and illustrating the rearwardly extended brace flanges at the base of the handle.

Referring to the drawing in detail, the sanding device comprises a base plate 5 constructed of sheet metal material, having one of its ends extended upwardly and rearwardly providing the flange 6 that overlies one end of the base plate in spaced relation with respect thereto.

The opposite end of the base plate 5 is extended upwardly and rearwardly at an oblique angle providing the flange 7 which has its extreme upper edge bent rearwardly at 8 where it lies in

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spaced relation with the main portion of the flange.

Disposed along the longitudinal side edges of the base plate 5 are upstanding flanges 9 which have the inwardly extended enlargements 10 formed adjacent to one of the respective ends thereof, the enlargements 10 overlying the base plate 5 in spaced relation therewith.

The handle by means of which the device is operated, comprises a length of sheet metal material of substantially U-shaped formation, indicated by the reference character 11, one end of the handle being extended forwardly at substantially right angles to the leg 12 of the handle, providing a forwardly extended flange 13 adapted to fit under the flange 6 of the base holding one end of the abrasive strip secured to the device, in position by frictional contact therewith. The abrasive strip in the present showing is indicated by the reference character 14 and may be either a sanding strip or emery cloth. However, it is contemplated to use an emery cloth or sanding strip wherein the cloth or sanding strip adjacent to the ends thereof, will be free of abrasive material presenting a smooth surface for contact under the end flanges of the base.

At one end of the handle 11, are rearwardly extended substantially triangular flanges 15 which are so arranged that they will engage the upper surface of the base plate 5 and closely fit between the enlargements 10, holding the handle centered on the base plate.

The opposite end of the handle 11 is bent inwardly and upwardly, providing a curved flange-engaging portion 16 and a flexible tongue 17, the curved flange forming a rounded surface for cooperating with the flange 8 in gripping the opposite end of the abrasive strip or cloth held by the device. The tongue 17 affords means whereby the curved flange engaging portion of the device may be moved to disengage the flange 8 and release the abrasive sheet or cloth.

From the foregoing it will be seen that due to the construction shown and described, I have provided a sanding device or sanding block which is exceptionally light and one wherein the handle provides means for cooperating with flanges of the base plate of the device in gripping the adhesive strip or cloth thereto.

It might be further stated that the construction also affords means whereby the cloth or abrasive strip may be readily and easily removed or replaced without the necessity of using tools of any character to remove and replace screws,

bolts or the like commonly used in securing abrasive sheets or strips to sanding blocks.

It will further be noted that when pressure is applied to the handle, the ends of the handle will be moved outwardly or into close engagement with the sanding strip or sheet to press it into engagement with the flanges of the base plate, clamping the abrasive strip or sheet to the device.

Having thus described the invention, what is claimed is:

1. A metal sanding block comprising a metallic base plate over which an abrasive strip is stretched, the ends of the base plate being extended inwardly providing flanges; and over which the abrasive strip is positioned, the abrasive strip engaging the under surfaces of said flanges, a handle by means of which the sanding block is operated, portions of the handle being extended outwardly and fitted under the flanges gripping the abrasive strip between the flanges and ends of the handle, and a flexible tongue extending inwardly from one end of the handle and lying in spaced relation with the base, said tongue providing means for moving one end of the handle to disengage the abrasive strip and flange at one end of the base plate releasing the handle.

2. A metal sanding block comprising a metallic base plate, the ends of the base plate being extended inwardly providing flanges over which an abrasive strip is stretched the ends of the abrasive strip engaging the under surfaces of the flanges, upwardly extended flanges formed along the longitudinal edges of the base plate, inwardly disposed enlargements formed at one end of the upstanding flanges formed on the edges of the base plate, said enlargements overlying the base plate, a handle by means of which the base plate is operated, said handle comprising a substantially

U-shaped yieldable member, the ends of the handle being extended laterally for engagement under the end flanges of the base plate gripping the abrasive strip positioned over the end flanges of the base plate, and flanges extending from one end of the handle engaging the enlargements holding the handle centered on the base plate.

3. A metal sanding block comprising a metallic base plate over which an abrasive strip is stretched, the ends of the base plate being extended inwardly overlying the base plate over which the abrasive strip is stretched, a substantially U-shaped handle having outwardly inclined legs, the ends of said legs being extended outwardly and positioned under the flanges of the base plate pressing the ends of the abrasive strip into close engagement with the flanges holding the abrasive strip against movement on the base plate, and means for centering the handle on the base plate against lateral movement with respect to the base plate.

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