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3,014,316

HAND SANDER

James A. Barnhart, 340 Florence Road, Constantine, Mich., assignor of one-half to Oscar R. Leiser, Penfield, N.Y.

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3 Claims. (Cl. 51—187)

This invention relates to a hand sander or sanding block, and has as its primary object the provision of an improved sanding block provided with means whereby the sandpaper may be changed with a minimum of effort and difficulty.

An additional object of the invention is the provision of such a device which is double-sided, and which may be so arranged to have one grade of sandpaper on one side and another grade of sandpaper on the other side so that either grade will be readily available for immediate use.

A further object of the invention is the provision of such a device having means whereby the used sandpaper may be released substantially immediately, and replaced in a single relatively simple operation.

A further object of the invention is the provision of a sanding block which is easy to grasp, and which may be readily utilized in all sorts of situations where a sanding block is necessary or desirable.

An additional object of the invention is the provision of such a sanding block which is sturdy and durable in construction, reliable and efficient in operation, and relatively simple and inexpensive to manufacture, assemble and utilize.

Still other objects will in part be obvious and in part be pointed out hereinafter and shown in the accompanying drawing wherein:

FIGURE 1 is a side view, partially in perspective of one form of sanding block embodying features of the instant invention shown in assembled relation;

FIGURE 2 is an exploded side plan view of the component parts of the block partially disassembled;

FIGURE 3 is a top plan view of the bottom section of the device as shown in FIGURE 2; and

FIGURE 4 is a sectional view taken substantially along the line 4—4 of FIGURE 1 as viewed in the direction indicated by the arrows.

Similar reference characters refer to similar parts throughout the several views of the drawing.

Having reference now to the drawings in detail, the device of the instant invention is generally indicated at **10**, and includes an upper portion **11** and a lower portion **12**, which are complementary, and substantially identical. The upper portion **11** and its complementary lower portion **12** both include a block **13**, having cut away portions **14** on the sides thereof to provide hand grips, and relatively smooth outer surfaces covered with a layer **15** of felt or the like, upon which the sandpaper is adapted to rest. Each of the blocks **11** and **12** is on its inner or underside cut away at the opposite ends as indicated at **16** and **17**, respectively, the cut away portions being connected by a centrally positioned longitudinally extending groove or channel **18**. Laterally extending semi-circular recesses **19** and **20** extend from the groove **18** to the adjacent cut away portion **14**, and are exposed on the outer surface thereof.

The upper block **12** is provided with a pair of aligned recesses **21**, which are connected by a transverse bore **22** which extends entirely through the block. The opposite end of the upper block **11** carries a pair of projecting lugs or tongues **23**, which are provided with openings **24**. The lugs **23** fit in recesses **25** of the opposed block which are identical to the recesses **21**, and which are provided with openings **26**, which align with the openings **24**. The lower block **12** is provided at its opposite end with tongues **27** which are identical to the tongues **23**, and provided with central openings **28**, the tongues **27** extending into the recesses **21**, the arrangement being such that when the blocks are in assembled relation pins **30** may be extended through the aligned openings **28** and **22**, and **26** and **24** to hold the two blocks in related assembly as shown in FIGURE 1.

A relatively triangular wire member **31** is positioned in each of the triangular cut away portions **16** and **17** of one of the blocks, illustratively the lower block **12**. Each wire **31** has a pair of extending end portions **32**, which extend into the longitudinal groove **18**, and terminate in looped portions **33**, which are perpendicular to the plane of the triangular portions **31**. Each loop **33** surrounds a crank pin **34**, which is carried by a disc **35** which seats in a suitable cut away portion in the adjacent block, as indicated at **36** in FIGURE 2. Each of the discs has a centrally extending operating pin **37**, which seats in the opposed aligned grooves **19** and **20** of the opposed portions **12** and **13**, the operating pins **37** each extending to the outer surface of the assembled block, and being provided with slots **37***a* for the reception of a screw driver or the like. The arrangement is obviously such that when the operating pin **37** is turned to the position shown in the left-hand side of FIGURE 3, the bight or base **38** of the triangular member **31** engages against a triangular block **39**, which is positioned in the cut away portion **17**, clampingly to hold both upper and lower pieces of sandpaper in assembled relation with the device. When the operating pin **37** is moved to the position shown in the right-hand side of FIGURE 3, obviously the base portion **38** of member **31** is moved away from its associated clamping block **39**, releasing the end portions of the sandpaper so that they can be removed for replacement as desired.

From the foregoing it will now be seen that there is herein provided an improved sanding block, which accomplishes all the objects of this invention, and others, including many advantages of great practical utility and commercial importance.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiments hereinbefore shown and described, and it is to be understood that all matter herein is to be interpreted merely as illustrative and not in a limiting sense.

I claim:

1. In a sanding block, the combination of upper and lower complementary sections, each having an outer face adapted to receive a piece of sandpaper, and each having an interior longitudinal groove terminating in each end in a triangular cutout portion, a triangular clamping block in each cutout portion having its base confronting the end of its associated section, a triangular wire having its base extending outwardly of said base of said clamping block, said wire having end portions extending from its apex into said longitudinal groove, loops at the ends of each end portion, a crank pin engaging each loop, and an operating pin extending from each crank pin to the outer side of said block for moving said base of said wire towards and away from said

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FINISHING WHEEL FOR SHOE MACHINERY

Filed Nov. 30, 1959

FIG. 1.

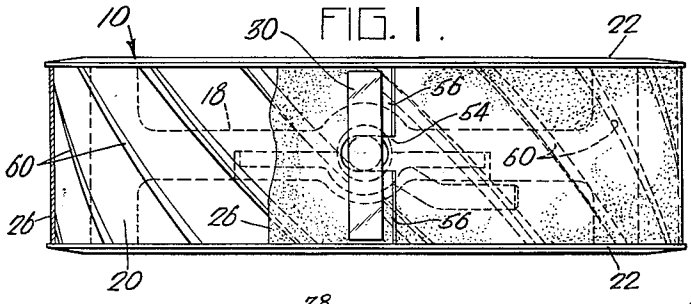


FIG. 6.

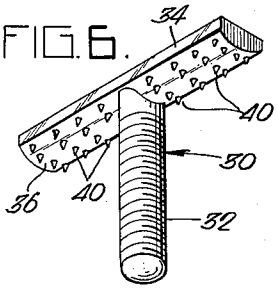


FIG. 2

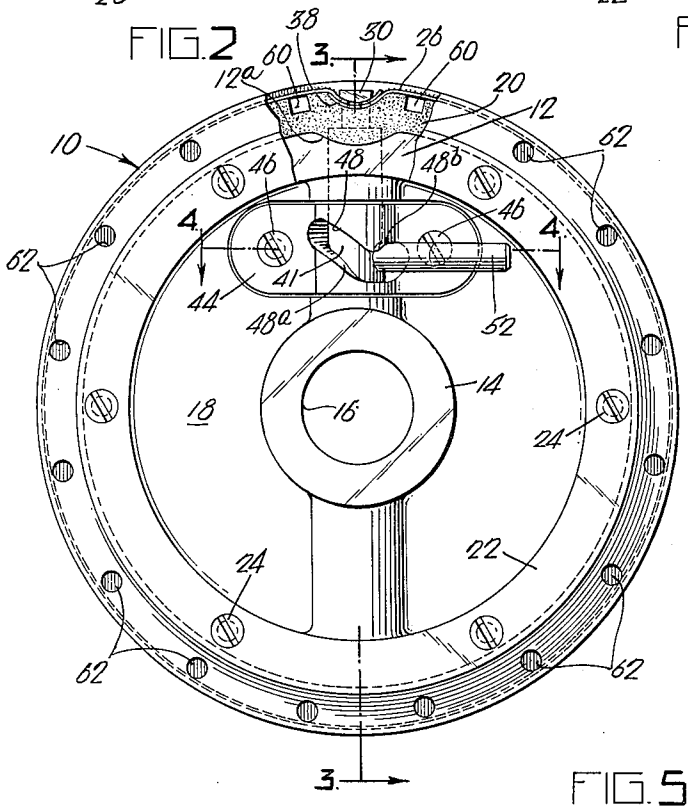


FIG. 3.

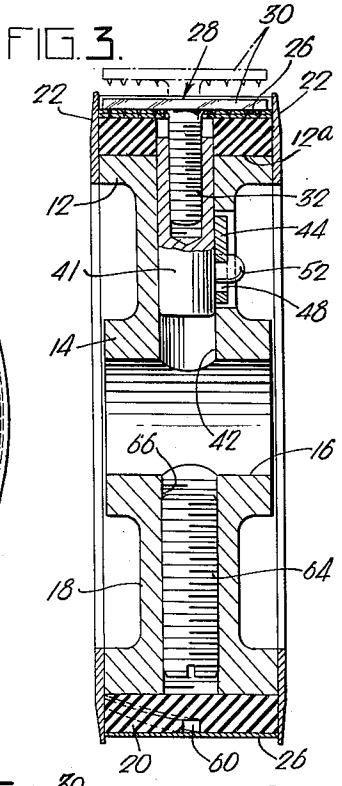


FIG. 4.

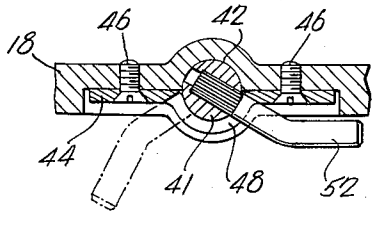
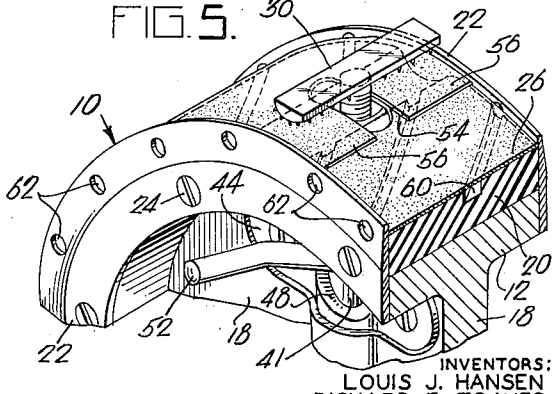


FIG. 5.



INVENTORS:
LOUIS J. HANSEN
RICHARD E. TRAVER

BY Howson & Howson
ATTYS.