Aug. 29, 1944. J. L. BRICKLEY 2,357,166

HAND SANDING MACHINE

Filed Feb. 14, 1944

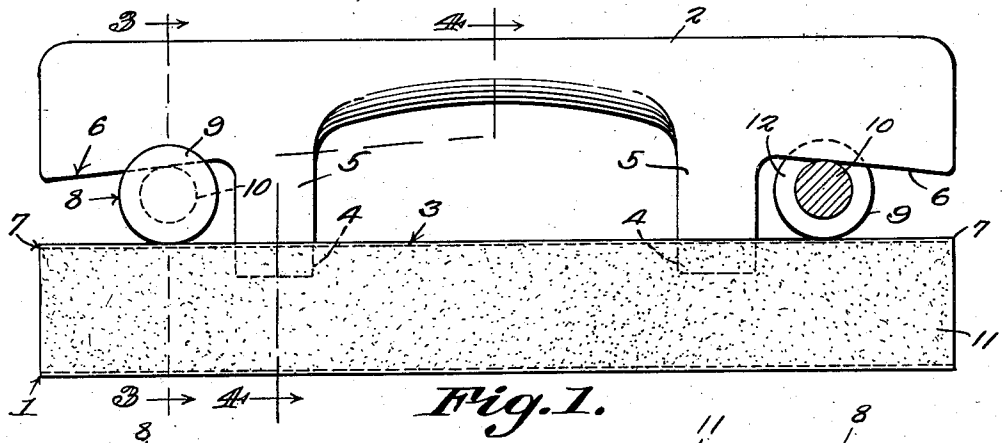

Fig. 1.

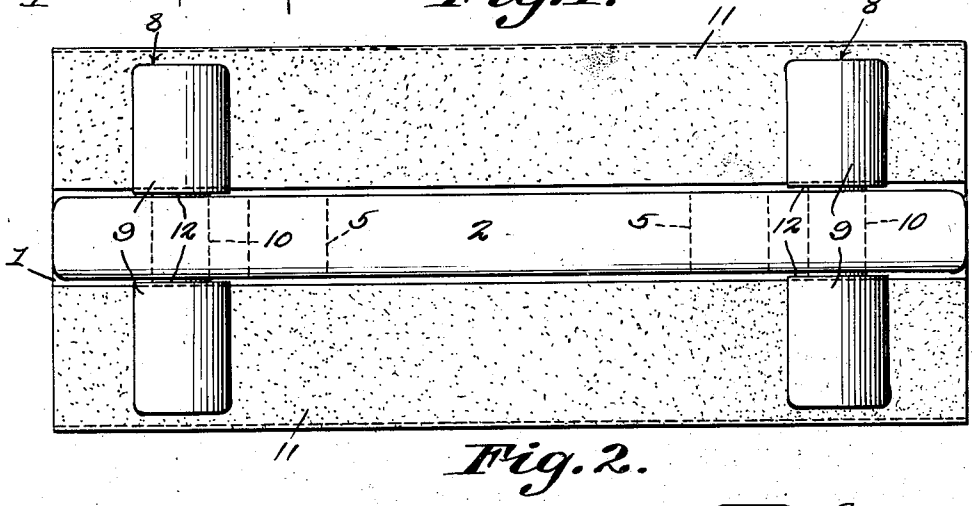

Fig. 2.

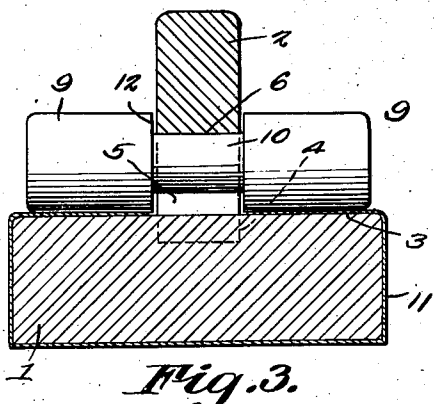

Fig. 3.

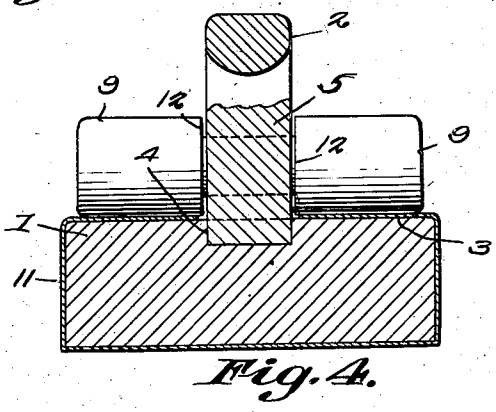

Fig. 4.

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HAND SANDING MACHINE

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Application February 14, 1944, Serial No. 522,299

3 Claims. (Cl. 51—187)

The device forming the subject matter of this application is a sand paper holder, and the invention aims to provide a device of the class described which may be made cheaply out of wood, if desired, a novel construction being afforded whereby rollers of novel form are made to cooperate with the upper surface of the body of the article, to form sand paper grips. Another object of the invention is to supply a novel construction whereby the longitudinal movement of the rollers will be practically eliminated, the rollers, at the same time, having even bearing on a member which holds them down for paper-gripping relation with respect to the body.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:

Fig. 1 shows, in side elevation, a sand paper holder constructed in accordance with the invention;

Fig. 2 is a top plan;

Figs. 3 and 4 are cross sections taken, respectively, on the lines 3—3 and 4—4 of Fig. 1.

As has been explained hereinbefore, the device forming the subject matter of this application may be made of wood, although the employment of that material is not insisted upon. The device is capable of being manufactured from small pieces which otherwise would go to waste.

A body 1 is provided, and may be of the elongated rectangular construction shown in the drawing. A handle member 2 is disposed above the upper surface 3 of the body 1 and is secured to the body. The handle member 2 preferably is of approximately the same length as the body 1.

Any suitable means may be provided for attaching the handle member 2 firmly to the body 1. If desired, the body 1 may be supplied in its upper surface 3 with recesses 4, which may be of rectangular cross section. The handle member 2 is supplied with spaced, depending legs 5, shaped to fit closely in the recesses 4. Ordinarily, the handle member 2 will be maintained assembled with the body 1, with sufficient security, if the legs 5 simply are driven into the recesses 4, the legs having a driving fit in the recesses. A little cement may be placed in the recesses 4, but that detail ordinarily may be omitted. The cement is not shown in the drawing.

The handle member 2 is supplied, immediately inwardly of its end surfaces, with lower surfaces 6, which slant in opposite directions, toward oppositely disposed marginal portions 7 of the body 1, and toward the upper surface 3 of the body.

Rollers 8 are provided, each roller comprising cylindrical terminal heads 9, and a reduced shaft 10 connecting the heads. The heads 9 cooperate with the upper surface 3 of the body 1, in the gripping of a piece of sand paper 11, extended about the body 1, the sand paper being indicated at 11.

The shafts 10 engage the inclined or slant surfaces 6 of the handle 2, when the rollers 8 are moved outwardly in opposite directions, to cause the heads 9 to cooperate with the upper surface 3 of the body 1, in gripping the sand paper 11, as aforesaid.

The length of the shafts 10 is substantially equal to the width of the handle member 2, whereby the inner ends of the heads 9 will constitute shoulders 12 which engage the handle member 2, to prevent objectionable longitudinal movement of the rollers 8, and to cause the shafts 10 to engage evenly with the slant surfaces 6 of the handle member 2.

The distance between the outer ends of the slant surfaces 6 and the upper surface 3 of the body 1 is less than the distance between the uppermost surface of the shaft 10 and the upper surface 3 of the body 1, thereby to prevent the rollers 8 from escaping from beneath said member 2.

Generally considered, the device forming the subject matter of this application exhibits a sand paper holder comprising a body 1, a member 2 disposed above the upper surface 3 of the body and secured to the body, said member having lower inclined surfaces 6, and rollers 8 having rolling movement between the inclined surfaces and the upper surface of the body, the rollers cooperating with the upper surface of the body to form sand paper grips.

The device calls for the use of no metal, and there is no occasion for resorting to a well known custom which consists in attaching sand paper to a rubbing block with tacks.

Having thus described the invention, what is claimed is:

1. A sand paper holder comprising a body, a

member disposed above the upper surface of the body and secured to the body, said member having lower surfaces which slant in opposite directions toward oppositely-disposed marginal portions of the body and toward the upper surface of the body, and rollers each comprising terminal heads and a reduced shaft connecting the heads, the heads cooperating with the upper surface of the body in the gripping of a piece of sand paper, the shafts engaging the slant surfaces, when the rollers are moved in opposite directions, to cause the heads to cooperate with the upper surface of the body as aforesaid, the length of the shafts being substantially equal to the width of said member, whereby the inner ends of the heads will constitute shoulders which engage said member to prevent objectionable longitudinal movement of the rollers, and to cause the shafts to engage evenly with the slant surfaces.

2. A sand paper holder constructed as set forth in claim 1, and wherein the distance between the outer ends of the slant surfaces and the upper surface of the body is less than the distance between the uppermost surface of the shaft and the upper surface of the body, thereby to prevent the rollers from escaping from beneath said member.

3. A sand paper holder comprising a body, a member disposed above the upper surface of the body and having lower inclined surfaces, and rollers having rolling movement between the inclined surfaces and the upper surface of the body, the rollers cooperating with the upper surface of the body to form sand paper grips.

JAMES L. BRICKLEY.