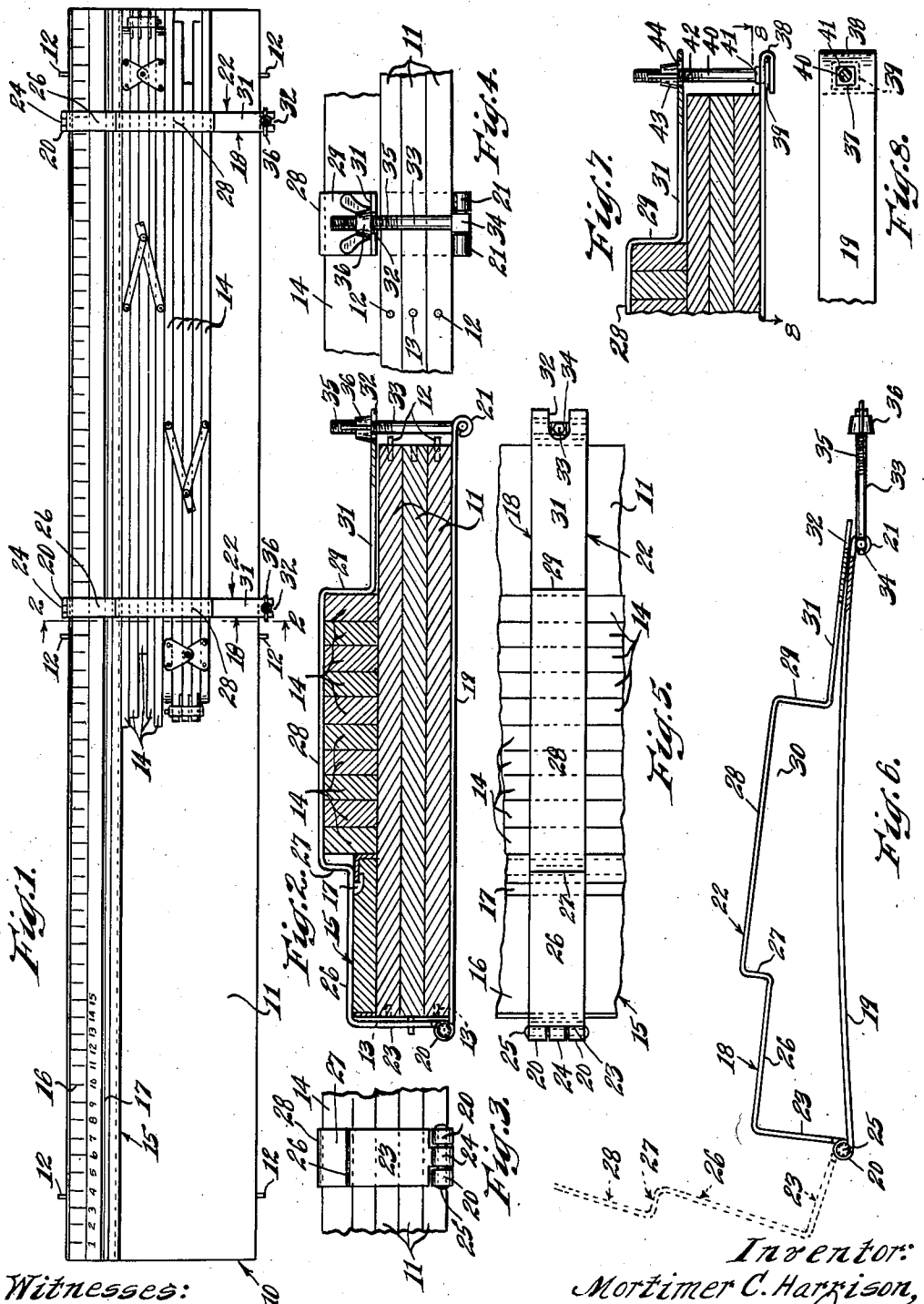
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CLAMPING DEVICE FOR PAPERHANGERS' OUTFITS

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CLAMPING DEVICE FOR PAPERHANGERS' OUTFITS

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1 Claim. (Cl. 24—243)

This invention relates to a clamping device for paperhangers' outfits, including table or bench boards, trusses, horses or props and a straight edge of wood or metal.

The object of the invention is to provide a novel clamping device of the above character which will facilitate packing thereof in a compact folded or collapsible condition; which will keep the boards straight; which will hold a wood or steel straight edge firmly and prevent its displacement as well as avoid injury or mutilation to any of the parts or loss of same and will avoid the necessity of having holes in the boards or straight edge in addition to being very simple and capable of being quickly applied or removed.

Further objects and advantages will appear and be brought out more fully in the following specification, reference being had to the accompanying drawing, in which:

Fig. 1 is a plan view of a paperhanger's outfit with the clamping devices applied and in use;

Fig. 2 is an enlarged transverse section taken on the line 2—2 of Fig. 1;

Fig. 3 is an end view looking toward the left hand end of Fig. 2, showing the hinge joint;

Fig. 4 is an end view looking toward the right hand end in Fig. 2, showing the clamping means;

Fig. 5 is a plan view of the structure shown in Fig. 2;

Fig. 6 is an elevation of a clamping device with one end in section;

Fig. 7 is a fragmentary view similar to Fig. 2, of a modification, and

Fig. 8 is a section on the line 8—8 of Fig. 7.

Referring to the drawing and more particularly to Figs. 1 to 6 inclusive, 10 designates an ordinary paperhanger's outfit for which the present clamping device or clamp is devised to hold the outfit in compact form when not in use for transportation or storing purposes, and at the same time permit the outfit to be readily taken apart and assembled or set up for use. This outfit includes table or bench boards 11, usually three in number having dowel pins 12 extending from one edge of each board and entering correspondingly located sockets 13 on the other edge of said boards so as to form one working surface. The bench or table is designed to be supported on collapsible or foldable supports in the form of horses, props, trestles or easels 14 shown collapsible in Fig. 1. The outfit also includes a straight edge 15 which may be of any suitable construction such as metal or wood reinforced with metal strips along the edges and bearing a scale 16, usually six feet long along one edge and having a cutting groove 17 adjacent the opposite edge to facilitate measuring and cutting of the paper.

The clamping device or clamp proper is designated at 18 and includes a lower bar 19 of suitable spring steel or other desired metal, this bar forming a jaw which may be straight as shown in Fig. 2, or bowed up slightly as in Fig. 6, although when the device is applied it will assume a straight or rectilinear form against the face of one of the boards 11 in the manner shown in Fig. 2 of the drawing. The bar 19 is provided with a pair of turned up ears 20 at one end formed by providing a recess or bifurcation in said end and turning up the forked portions thus formed in circular formation. The opposite end is provided with similarly formed down turned ears 21.

The top or locking bar is designated at 22 and includes a depending vertical end portion 23 bent downwardly at right angles thereto and having its lower end cut away at each side to form a reduced central portion curled to form an ear 24 to fit between the ears 20 and turned outwardly for this purpose. Through the medium of a pivot or trunnion pin 25 extending through the ears 20 and 24, the bars are pivotally connected to swing to clamping or open position as indicated in solid and dotted lines in Fig. 6. Extending at right angles to the portion 23 is a part 26 which is designated to clamp the straight edge 15, and then the bar 22 is bent outwardly at right angles as indicated at 27 and substantially parallel to the portion 23 to form a shoulder. This portion is then extended parallel to the part 26 and at right angles to the portion 27 to form a raised intermediate portion, as indicated at 28 and then inwardly or downwardly substantially at right angles as indicated at 29 parallel to the portions 23 and 27 but deeper than the latter portion to form a pocket 30. The purpose of making the portion 29 deeper or longer than the portion 27 is that the straight edge 15 is interposed between the boards and the portion 26 whereas the portion 31 at the free end of the top bar 22 which extends outwardly substantially at right angles to the portion 29, engages directly with the top board of the boards 11. The free end portion of the clamping end 31 has a slot 32 communicating with the end thereof and formed by bifurcating or forking said end to take a T-bolt 33, which has a pivot or trunnion 34 extending at right angles thereto at one end to pivotally connect in the ears 21 to the free end of the bar 19. The threaded end 35 of the bolt 33 is designed to take

a wing nut 36, and when the clamp is applied to the outfit, as shown in the drawing, the bolt 33 is swung up into the slot 32 and the nut turned down to tightly clamp the parts of the outfit and prevent possible displacement thereof.

In Figs. 7 and 8 of the drawing a slight modification is shown in which the parts are the same as previously described, except that the bar 19 instead of having the bolt pivoted or hinged thereto, has a bolt rigid therewith. For this purpose, the bar is formed with a square or polygonal hole 37 and the end 38 is turned under to engage the head 39 of a bolt 40 disposed through the hole 37 and having a squared portion or shank 41 fitting the hole 37 to restrain the bolt from turning. The threaded end 42 of the bolt is engaged by a wing nut 43. The bolt 40 is designed to extend through an elongated or other opening or slot 44 in the end portion 31 of the bar 22 and when the nut is turned down, the parts will be firmly clamped. In this form the bar 19 may be straight or may be bowed as previously described to assume a rectilinear condition when pressed against the bottom of the boards and clamped, in which condition the resiliency of the bar 19 and the tension produced thereby will draw the nut against the upper face of the end portion 31 of the bar 22 and hold the clamp in position until tightened or released.

It will thus be seen that this device obviates the necessity of having holes in the boards and straight edge and permits the straight edge to be clamped firmly along one edge or side of the boards instead of being disposed in the center, while the supports in the form of trestles, horses or props are clamped alongside of the same. This is especially advantageous in clamping a metal straight edge as it will hold the same firmly and no holes are necessary in the boards or straight edge. This is due to the fact that the clamping action is stronger where the bars of the clamp are pivoted together. Also, by having the bolt fastened to the frame of the clamp any chance of the bolts being lost is eliminated as it is unnecessary to remove the nuts from the bolts and the bolts from the clamp bars as with the old device.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

A clamping device for paperhangers' outfits including a flat bar, another bar hinged to one end thereof and offset from the first bar at said end, said second bar having angularly bent portions forming clamping portions, shoulders and a pocket and having three risers all at different elevations and a slot at its free end, a bolt hinged to the free end of the other portion to extend substantially at right angles to the bars and engage the slot, and a nut on the bolt to clamp the bars against the outfit.

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