

W. H. PHILLIPSON.
ADJUSTABLE SAWHORSE.
APPLICATION FILED JULY 18, 1911.

1,044,816.

Patented Nov. 19, 1912.

Fig. 1.

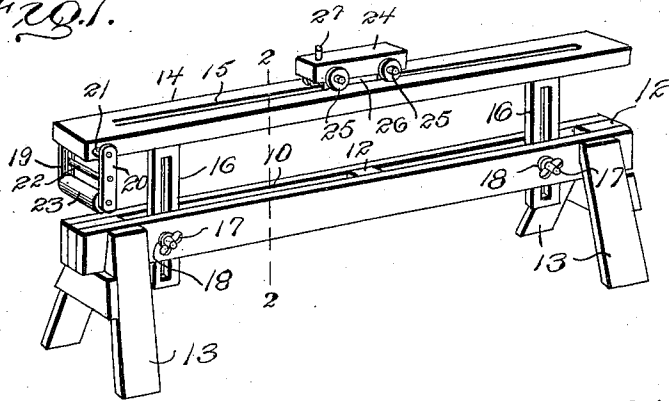


Fig. 2.

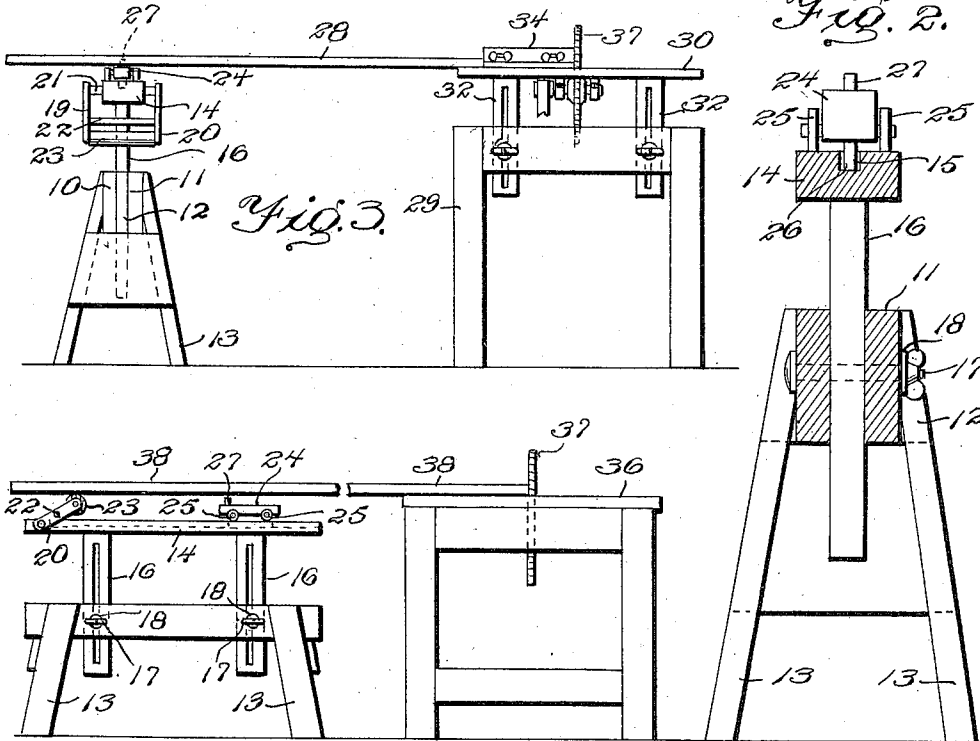


Fig. 3.

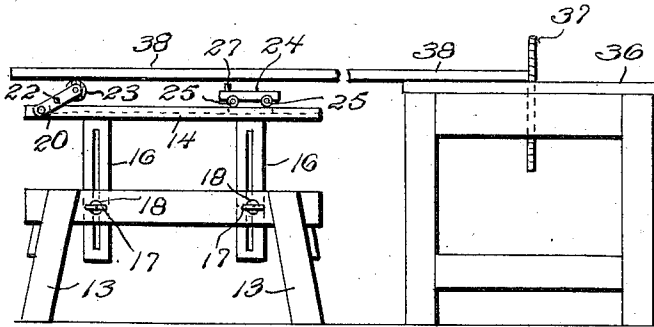
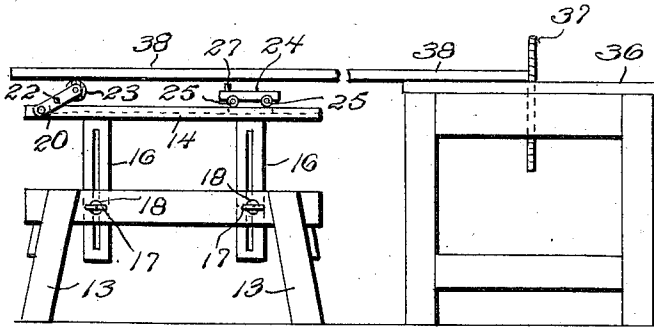


Fig. 4.



Witnesses

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ADJUSTABLE SAWHORSE.

1,044,816.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WALTER H. PHILLIPSON, citizen of the United States, residing at Hornell, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Adjustable Sawhorses, of which the following is a specification.

This invention relates to improvements in "adjustable saw horses", and has for one of its objects to improve the construction and increase the efficiency and utility of a device of this character.

Another object of the invention is to provide a device of this character having an adjustable upper member provided with a movable carriage whereby the device may be adapted for supporting material which is being acted upon by saws, shapers, boring machines and similar machines.

Another object of the invention is to provide a device of this character wherein the attachments are adapted to be withdrawn to enable the device to be employed as an ordinary saw horse.

With these and other objects in view the invention consists in certain novel features of construction as hereafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention.

Figure 1 is a perspective view of the improved device in extended position, Fig. 2 is an enlarged transverse section on the line 2-2 of Fig. 1, Fig. 3 is a diagrammatic view illustrating one means of employing the improved device, Fig. 4 is another diagrammatic view illustrating another manner of employing the improved device.

The improved device comprises a supporting structure or "horse" mounted upon supporting legs and preferably comprising a head member constructed with two side portions 10-11 spaced apart and with filler blocks 12 at suitable intervals and supported by diverging legs 13. The head member 10-11 is of the usual length of a saw horse and legs 13 are slightly less in length than those of an ordinary saw horse.

The horse portion of the improved device may be constructed of any suitable material and of any suitable size; it is not desired therefore to limit this portion of the improved device to any specific form, size, or

material. An upper member 14 is located above the head member and preferably of substantially the same length and preferably slightly wider than the combined head members 10-11. The member 14 is provided with a longitudinally extending slot 15 and likewise provided with depending slotted arms 16, the latter extending through the space between the members 10-11 and clamped therein by bolts 17 which extend through the members 10-11 and likewise through the slots of the members 16. The clamp bolts are each provided with a wing nut 18 so that the members 16 may be clamped between the members 10-11 by compressing the latter against them through the action of the wing nut 18. By this simple means the members 14 may be adjusted to any required height relative to the horse portion of the device.

Mounted to swing upon the member 14 is a frame comprising two side members 19-20 connected by a rod 21 at one end, the latter extending through the member 14, and with a stay rod 22 intermediate the ends. At their outer free ends the said members 19-20 are connected by a roller 23. By this arrangement when the frame is to be turned in its upward position the stay member 22 will rest upon the upper face of the member 14 and support the roller 23 slightly elevated above the member 14 as represented in Fig. 4, and when the frame is turned into its lower position as shown in Fig. 1 all of the parts will be beneath the upper face of the member 14. By this means when the frame 19-20 is arranged in its lowered position it does not interfere with the ordinary uses of the "horse," as will be obvious.

Movably disposed above the member 14 is a carriage device comprising a head 24 and bearing roller 25. The head member 24 is provided with a depending rib 26 which operates in the slot 15 of a member 14 while the rollers 25 run upon the upper face of the member 14 at opposite sides of the slot. The member 24 is provided with an upwardly directed pin 27, to carry a longitudinally extending support 28, the latter having an aperture to engage over the pin 27. The improved device, as before stated, is designed more particularly for supporting material while being acted upon by saws of various kinds, shapers, boring machines and the like, and for the purpose of

illustration the improved device is shown in Figs. 3 and 4 arranged for use in connection with two conventional saw devices.

In Fig. 3 the improved device is shown 5 and arranged for use in connection with a conventional saw having a vertically adjustable table, and in Fig. 4 the improved device is shown employed in connection with a conventional "railroad saw." The supporting frame of the saw shown in the illustration in Fig. 3 is indicated at 29, the saw table at 30 and the saw at 37, the table being adjustable vertically by means of standards or arms 32. The table is also provided with 15 the usual guide or gage 34. The supporting member 28 rests at one end upon the table 30 and against the gage 34 and is supported at its other end by the pin 27 upon the movable carriage 24, the member 14 being adjustable vertically to correspond with 20 the adjustment of the saw table 30. By this means a simply constructed and convenient support is provided for the work which is to be acted upon by the saw, and 25 enables the operator to accurately and conveniently support the material, and does not therefore require the services of an extra helper to hold the material at its outer end. As the material is moved toward the saw 30 the member 28 is carried with it and the carriage 24—26 likewise moves upon the member 14 to the same extent.

In Fig. 4 the improved device is shown and arranged to employ the swinging frame 35 19—20 with its roller 23. In this arrangement of the device the supporting frame of the saw is represented at 35, the sliding saw table at 36 and the saw at 37. The material to be acted upon is indicated at 38 and rests 40 at one end upon the saw table and is supported at its other end by the roller 23, the latter being adjustable vertically through the action of the arms 16, so that the roller 23 is located in a position level with the 45 upper face of the table 36. Thus the material 38 is moved toward the saw as fast as

required, and its free end supported in a level position relative to the saw table while being acted upon.

It will thus be obvious that a simply constructed device is produced which may be readily adjustable to correspond to the machine with which it is to be employed, while at the same time by simply disposing the frame 19—20 in its lower position as shown 55 in Fig. 1 and removing the carriage 24 and lowering the member 14 upon the head members 10—11, the improved device may be employed as an ordinary saw horse.

Having thus described the invention what is claimed as new is:

1. In a device of the class described, a support including an upper member, a frame including side members swinging upon said upper member, a bearing roller 65 carried by said side members, and a transverse member connecting said side members and adapted to bear upon said upper member and maintain the bearing roller spaced therefrom. 70

2. In a device of the class described, a support including an upper member having spaced sides, a frame including side members pivoted to said upper member at opposite sides thereof and near one end and a 75 transverse member connecting said frame sides and spaced from their outer ends whereby the frame sides may be arranged to hang downwardly beneath the upper member or be supported above the upper member 80 by said transverse member, and a bearing roller carried by said side members in advance of said transverse member and maintained thereby spaced from the upper member. 85

In testimony whereof, I affix my signature in presence of two witnesses.

WALTER H. PHILLIPSON. [L. s.]

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."