April 10, 1945. J. R. LONG 2,373,485

SAW HORSE

Filed Sept. 2, 1943

Fig. 1.

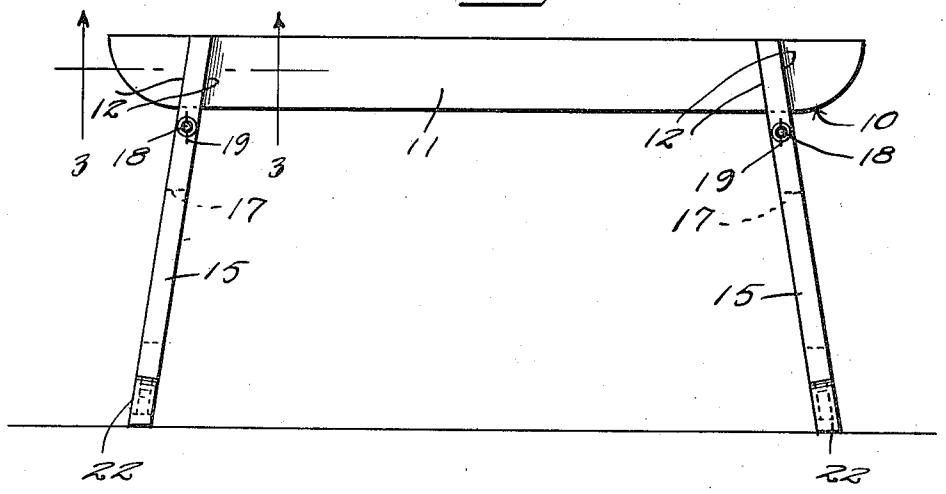


Fig. 2.

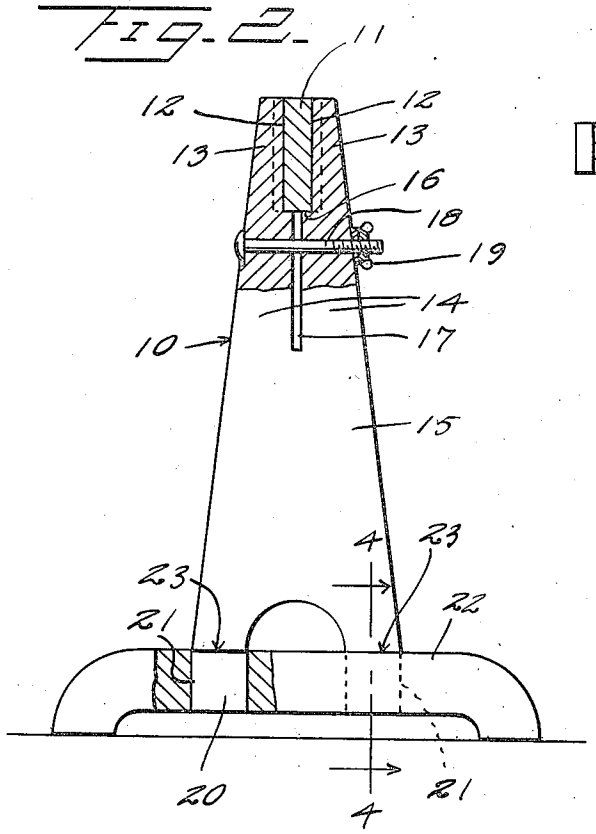


Fig. 3.

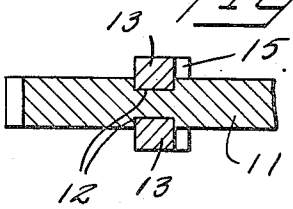
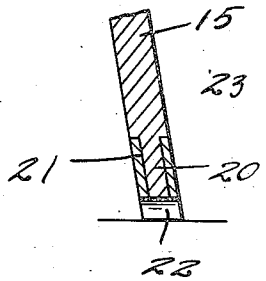


Fig. 4.



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2,373,485

SAWHORSE

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Application September 2, 1943, Serial No. 500,983

2 Claims. (Cl. 304—5)

This invention relates to a saw horse.

It is aimed to provide a saw horse of the general character used by carpenters, pattern makers, machinists and other mechanics, in various industries, packing plants, ship yards, on ships, in merchandising houses, on farms, and in general, capable of being readily collapsed and assembled, so as to occupy minimum space when not in use and when being carried from place to place.

It is especially aimed to provide such a collapsible structure as will afford extreme rigidity when in place.

I further aim to provide a structure wherein the top bar is held in place by efficient clamp means formed at the upper ends of the legs, and engaged in grooves at the opposite sides of the top bar.

In addition it is aimed to provide a structure wherein the feet are detachably interengaged with the legs for rapid assembly and disassembly to enable occupation of minimum space in storage or transportation.

The more specific objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawing illustrating an operative embodiment.

In said drawing:

Figure 1 is a view in side elevation of the improved saw horse;

Figure 2 is an end elevation, partly broken away and in section to disclose details;

Figure 3 is an enlarged horizontal section taken on the line 3—3 of Figure 1; and

Figure 4 is a detail vertical section taken on the line 4—4 of Figure 2.

Referring specifically to the drawing wherein like reference characters designate like or similar parts, 10 refers to the saw horse in its entirety. While certain uses hereinbefore have been mentioned for the saw horse, it is to be understood that it may be used wherever capable as a saw horse or support and that no limitation as to use is to be implied or inferred.

The saw horse according to the invention has a top horizontal bar at 11, and at opposite ends adjacent each side has angularly arranged grooves 12. Such grooves 12 are detachably interfitted with extensions 13 of jaws 14, formed at the upper ends of angularly inclined legs 15. The jaws 14 at 16 have shoulders on which the top bar 11 rests, and for a distance beneath the shoulders the legs 15 have longitudinal slits or slots at 17 whereby the jaws may be pulled together at their upper ends by means of bolts 18, loosely passing therethrough, and having wingnuts 19 screw threaded thereon as shown. The jaws 14 thus function as clamps, since tightening of wingnuts 19 will draw the jaws together to cause them efficiently to grip and retain the top bar 11.

At their lower ends the legs 15, which preferably increase slightly in width in downward direction, are provided with tenons 20, removably interfitted in mortises 21 of suitable feet 22. It will be noted that the tenons 20 are of reduced thickness so as to leave shoulders 23 to rest directly on the upper surfaces of the legs 22.

It will be realized that the structure described may be assembled and disassembled readily by loosening the nuts 19, removing the top bar 11, and detaching the legs 15 at the tenons 20 from the feet 22, the top bar 11, legs 15, and feet 22 being capable of disposition in parallelism to occupy small space when stored or in shipment or transportation. The disassembly or reassembly of the structure may be effected within a very few minutes, and when assembled the parts will afford maximum rigidity.

It will be clear that the parts 11, 15 and 22 may be made from any suitable material, for instance hard or soft wood, or even may be made from metal, plastic material, or be composite with the parts using any of such materials or a number of them.

Various changes may be resorted to provided that they fall within the spirit and scope of the invention.

I claim as my invention:

1. A horse of the class described having a top bar provided with grooves in opposite sides thereof, legs, said legs having longitudinally extending slots providing jaws, bolts passing through said jaws, legs having shoulders on which the top bar rests and from which extend jaws, said jaws having extensions above the shoulders occupying said grooves.

2. A horse of the class described having a top bar provided with grooves in opposite sides thereof, legs, said legs having longitudinally extending slots providing jaws, bolts passing through said jaws, legs having shoulders on which the top bar rests and from which extend jaws, said jaws having extensions above the shoulders occupying said grooves, feet for the legs, and detachable mortise and tenon joints between said legs and feet.

JOHN R. LONG.