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1,671,801

W. WHITE

PORTABLE DIVING STAND

Filed Oct. 20, 1927

Fig. 1.

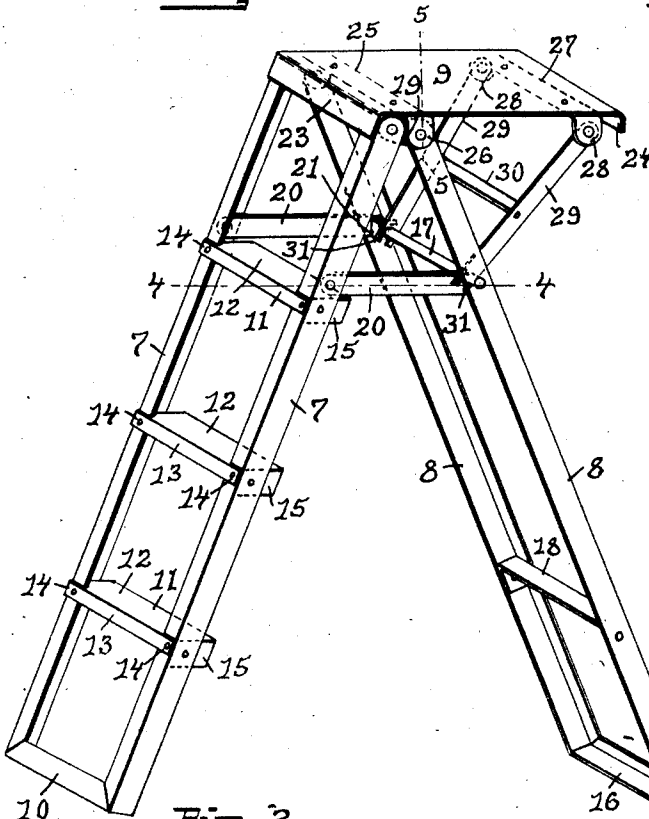


Fig. 2.

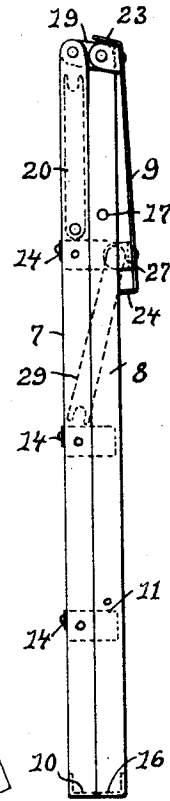


Fig. 3.

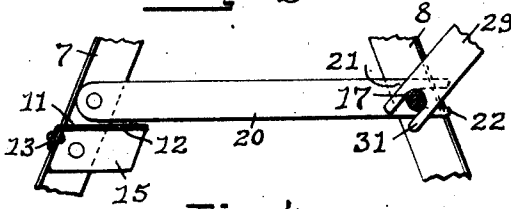


Fig. 4.

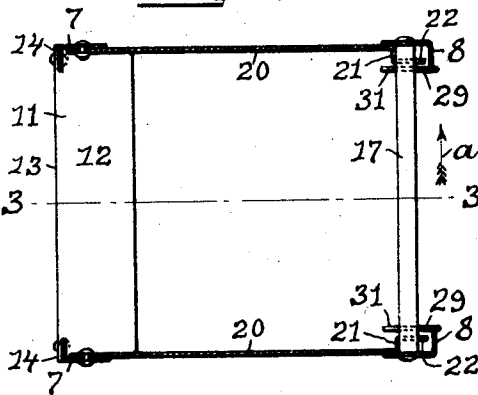


Fig. 5.

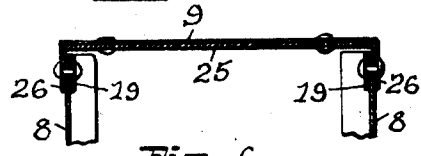
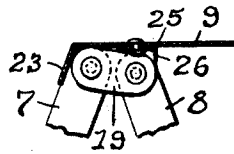


Fig. 6.



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PORTABLE DIVING STAND.

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My invention has reference to an improvement in diving stands and more particularly to an improvement in a diving stand that is collapsible and portable, whereby the diving stand may be folded up and easily carried from place to sea shore, on the running-board of an automobile.

The object of my invention is to improve the construction of such a diving stand whereby, when the diving stand is set up on a comparatively smooth surface, such as flooring at the end of a wharf, it can not collapse, when used for diving purposes.

Another object of my invention is to so construct such a diving stand, whereby when the diving stand is collapsed or folded up it will occupy a minimum amount of space, for packing and transportation purposes.

A further object of my invention is to simplify the construction of such a diving stand, thereby increasing its strength and reducing its cost to a minimum.

My invention consists in the peculiar and novel construction of a portable and collapsible diving stand, said diving stand having details of construction, as will be more fully set forth hereinafter and claimed.

Figure 1 is a perspective view of my improved portable diving stand in the open or set up position, for diving purposes.

Figure 2 is a side view of the diving stand in the collapsed or folded up position.

Figure 3 is an enlarged detail vertical sectional view taken on line 3, 3, of Figure 4 and looking in the direction of the arrow *a*.

Figure 4 is an enlarged detail horizontal sectional view taken on line 4, 4, of Figure 1.

Figure 5 is an enlarged detail vertical sectional view taken on line 5, 5, of Figure 1, and

Figure 6 is an enlarged detail vertical sectional view showing one of the links pivotally connecting the step and brace legs of the stand.

In the drawing 7, 7, indicates the step legs, 8, 8, the brace legs and 9 the diving platform of my improved portable diving stand. The step legs 7, 7, are L shaped in cross section and formed from the arms of a U shaped member, the arms of the U forming the step legs and the closed end of the U forming a flat base bar 10. The steps 11, 11, are secured at each end to the step legs,

each step having a tread 12, a downwardly bent lip 13 having outwardly extending ends 14, 14, riveted to the front portions of the step legs and downwardly bent ends 15, 15, riveted to the side portions of the step legs. The brace legs 8, 8, are L shaped in cross section and formed from the arms of a U shaped member having a flat base bar 16, a round cross rod 17 secured at each end to the brace legs 8, 8, on a line just above the upper step 11, on the step legs 7, 7, and a flat brace bar 18 riveted at each end to the brace legs 8, 8. The upper end of each step leg 7 is pivotally secured to a connecting link 19 which in turn is pivotally secured to the upper adjacent end of the brace leg 8, as shown in Figure 6. Two brace arms 20, 20, are each pivotally secured at its step end to a step leg 7. Each brace arm 20 has an L shaped end 21 which contacts with the cross rod 17, and this L shaped end has a forked extension 22 which engages with and straddles the cross rod 17, as shown in Figures 3 and 4, thereby firmly holding the step and brace legs from collapsing. The diving platform 9 has a downwardly bent lip 23 which fits over the upper ends of the step legs 7, 7, and an oppositely disposed downwardly bent lip 24. A flat cross bar 25 having downwardly bent ends 26, 26, is riveted to the underside of the diving platform 9, the ends 26, 26, being pivotally secured to the upper ends of the brace legs 8, 8, as shown in Figure 5. A flat cross bar 27 having downwardly bent ends 28, 28, is riveted to the underside of the diving platform 9 adjacent the lip 24. Platform supporting arms 29, 29, are pivotally secured at their upper ends to the ends 28, 28, of the cross bar 27, the arms 29, 29, being braced by a connecting bar 30, and each arm 29 has a forked end 31, which engages with and straddles the cross rod 17, on the brace legs 8, 8, as shown in Figures 1 and 3.

When in use the diving stand is set up as shown in Figure 1. The weight of the diver on the diving platform 9 will force the forked ends 31, 31, of the arms 29, 29, against the cross rod 17 which in turn is forced into the forked extensions 22, 22, of the brace arms 20, 20, thereby holding the diving stand from collapsing when in use. For transportation purposes the forked ends of the arms 20, 20, and 29, 29, are withdrawn

from the cross rod 17 and the diving stand folded up as shown in Figure 2.

Having thus described my invention I claim as new:—

5 A portable diving stand having step legs with steps, brace legs having a cross rod, links pivotally connecting the step legs with the brace legs, brace arms pivotally connected with the step legs, each brace arm
10 having an L shaped end with a forked extension which engages with and straddles the cross bar on the brace legs, a diving plat-

form pivotally secured to the brace legs and having a downwardly bent lip which lies over the upper ends of the step legs, and
15 platform supporting arms pivotally secured to the diving platform, each platform supporting arm having a forked end which engages with and straddles the cross rod on the brace legs.

20 In testimony whereof, I have signed my name to this specification.

WILLIAM WHITE.