Sept. 27, 1927. 1,643,464

E. W. McCULLERS

DOCK

Original Filed June 12, 1926

Fig. 1.

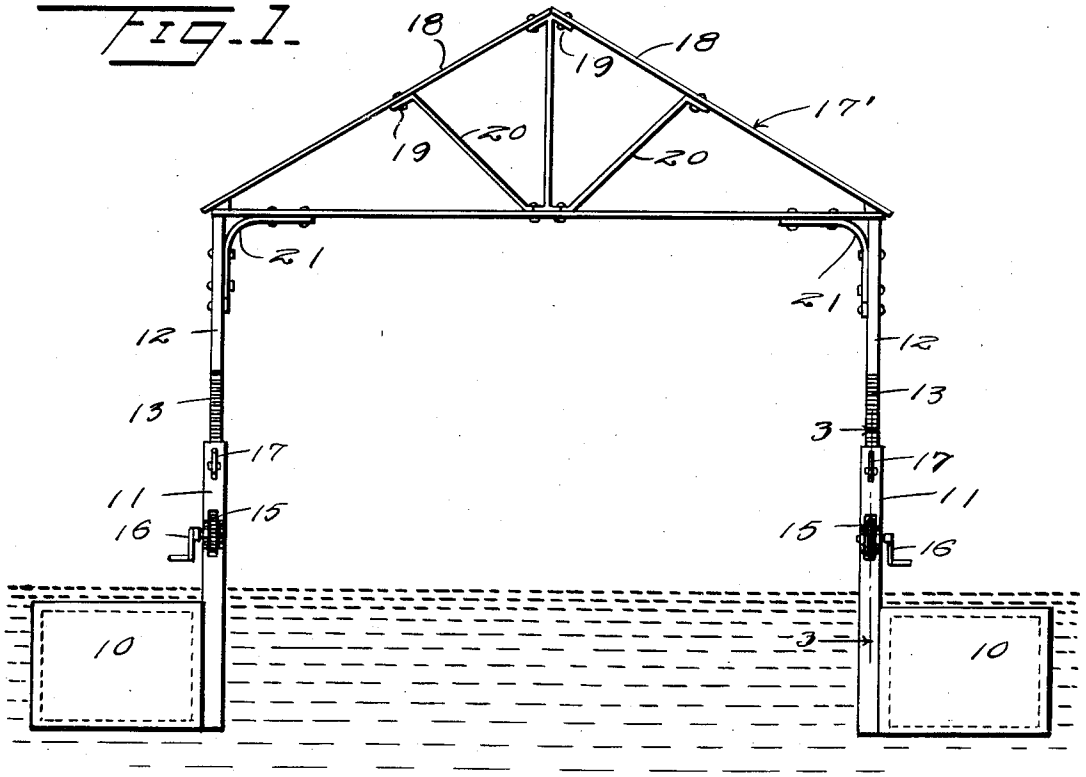


Fig. 2.

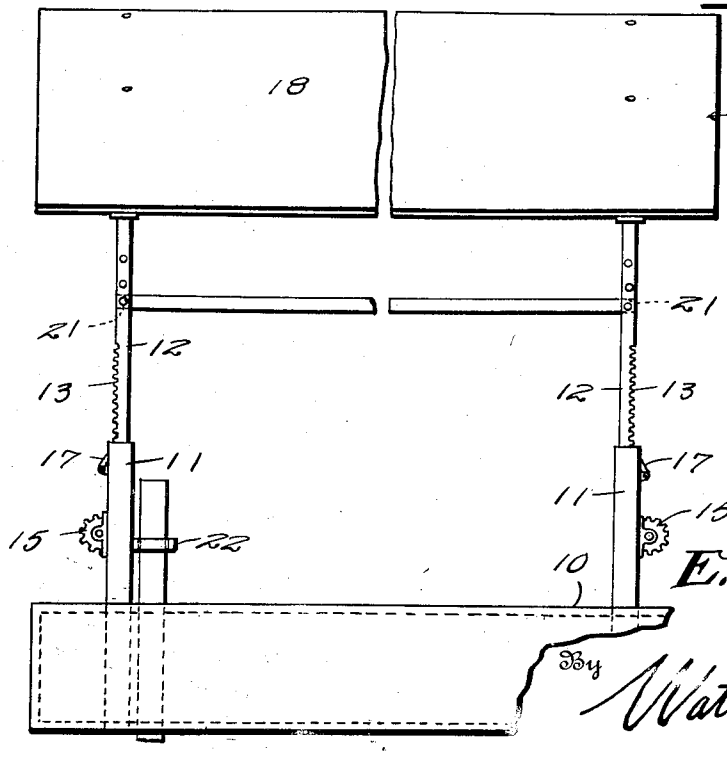
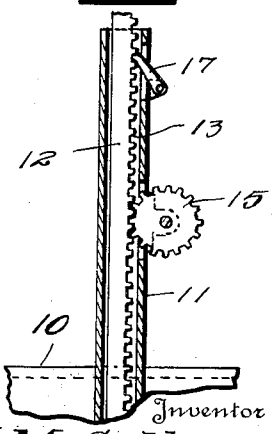


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDGAR WARREN McCULLERS, OF CLAYTON, NORTH CAROLINA.

DOCK.

Application filed June 12, 1926, Serial No. 115,572. Renewed August 15, 1927.

This invention relates to docks and more particularly to a floating dock for housing small boats, submarines, aeroplanes or the like.

An important object of the invention is to provide a device of this character including floats from which a roof is supported, the connection between the floats and the roof permitting vertical adjustment of the roof, so that vessels or aeroplanes of different heights may be accommodated while the device maintains at all times the lowest possible center of gravity.

A further object of the invention is to provide a device of this character which may be readily dismantled to permit its shipment from place to place.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a front elevation of a dock constructed in accordance with my invention;

Figure 2 is a side elevation thereof;

Figure 3 is a vertical sectional view on the line 3—3 of Figure 1.

Referring now more particularly to the drawings, the numeral 10 generally designates supporting floats, at present illustrated as closed chambers which may either contain air or gas, increasing the buoyancy of the chamber. By regulating the buoyancy of the chamber, the chamber may be submerged and thus hidden from view, if so desired. A chamber is arranged at each side of the dock and at each end thereof, each chamber is provided with vertically extending tubes 11 in which are engaged the lower ends of roof supports 12. These roof supports are each formed at their lower ends as racks 13 and each tube 11 has rotatably mounted thereon adjacent its upper end a gear 15 for engagement with the rack to vertically adjust the support 12. The gears may be provided with a removable handle 16 whereby they may be adjusted. Each tube has further pivoted thereto a pawl 17 for engagement in the rack to maintain the support 12 in adjusted positions.

The numeral 17 generally designates a duralumin roof structure formed in sections 18 secured together by removable securing elements 19, so that the roof may be readily separated into sections for transportation. The connections between the sections preferably embody braces 20 combining in the assembled roof to produce truss structures for supporting the roof. The roof structure is suitably secured to the upper ends of the supports 12 and braced therefrom, as indicated at 21.

It will be obvious that a device of this character may be readily erected or dismantled for shipment and will provide a very efficient housing for a boat, submarine or aeroplane in which the roof structure may always be arranged at the lowest possible level, so that the center of gravity is always kept at the lowest possible point.

In practice, the tubes 11 will be filled with oil in which the rack 13 will extend to prevent corrosion of the teeth thereof and to provide the necessary lubrication. The tubes 11 further have secured thereto pivoted eyes 22 for the passage of piles or similar anchoring devices or for attachment of an ordinary anchor. If desired, cables may be secured to each corner of the dock to provide additional anchoring means.

Since the construction hereinbefore set forth is obviously capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

1. In a floating dock, spaced floats each provided at each end thereof with a vertically directed tube, a support vertically adjustable within the tube, means for holding the support in vertically adjusted positions and a roof structure secured to the upper ends of the supports.

2. In a floating dock, spaced floats each provided at each end thereof with a vertically directed tube, a support vertically adjustable within the tube, means for holding the support in vertically adjusted positions and a roof structure secured to the upper ends of the supports, said roof structure being formed in a plurality of sections secured to one another.

3. In a floating dock, spared floats each provided at each end thereof with a vertically directed tube, a support vertically adjustable within the tube, means for holding the support in vertically adjusted positions and a roof structure secured to the upper ends of the supports, said roof structure being formed in a plurality of sections secured to

one another, the connections between the sections combining in the completed roof structure to provide a truss.

4. In a floating dock, spaced floats each provided at each end thereof with a vertically directed tube, a support vertically adjustable within the tube, means for holding the support in vertically adjusted positions, a roof structure secured to the upper ends of the supports and means for vertically adjusting said supports comprising racks formed at the lower ends of the supports, a gear rotatably mounted upon each tube and engaging with the rack of the associated support and means for rotating said gear.

In testimony whereof I hereunto affix my signature.

EDGAR WARREN McCULLERS.