June 8, 1926. 1,587,710

A. FIALA

PORTABLE SPONSON FOR CANOES

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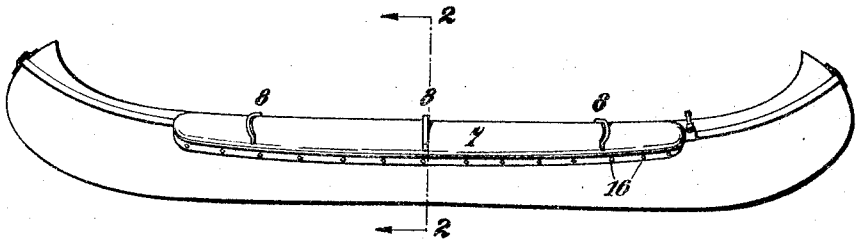


Fig. 1.

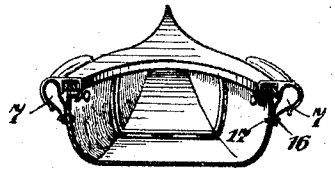


Fig. 2.

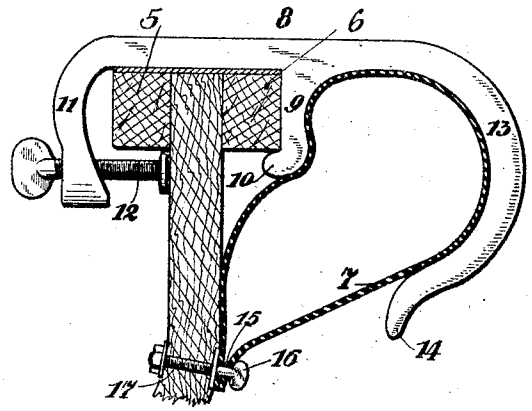


Fig. 3.

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UNITED STATES PATENT OFFICE.

ANTHONY FIALA, OF BROOKLYN, NEW YORK.

PORTABLE SPONSON FOR CANOES.

Application filed September 3, 1925. Serial No. 54,332.

My invention relates to that class of portable sponsons for canoes and other boats in which the inflatable tubes acting as air sponsons or buoys are detachably secured along the outside of the gunwales of the canoe by means of portable holding brackets having clamps to secure them to the gunwales.

My invention consists of arms on the brackets to embrace and bind the tubes between themselves and the outside of the boat, other arms on the brackets to embrace the gunwales, and also by preference eyes in the tubes to receive suitable fastenings on the boat, substantially as hereinafter described and claimed.

Reference is to be had to the accompanying drawings forming part of this specification in which like parts are designated by the same numbers in all the figures.

Figure 1 is a side elevation of a canoe equipped with portable sponsons embodying my invention.

Figure 2 is a cross sectional view of the same on the line 2—2, Figure 1.

Figure 3 is an enlarged cross-sectional view showing one sponson on one gunwale of the canoe.

In the drawings, 4 designates the gunwales of the canoe having inwardly and outwardly projecting side rails 5 and 6 respectively, and 7 designates the inflatable air tubes acting as sponsons preferably of thin rubber or air proof vulcanized fabric, so that when detached from the canoe they can be deflated and conveniently stored for transportation.

To secure the air tubes to the outside of the cance to act as sponsons and prevent the canoe from capsizing, I provide for each side of the canoe three, more or less, brackets 8, each having an outside rigid arm 9, with an inturned rigid hook 10 on its lower end to embrace the outside rail 6 of the canoe and an inside rigid arm 11 depending below the inner rail 5 and having a screw clamp 12 turnable therein to engage the gunwale of the canoe and tightly bind the bracket thereto. On the bracket 8, outside the rail embracing arm 9, I also form integrally a rigid tube holding arm 13 curved downwardly and inwardly, between which arm and the outside of the canoe the tube 7 is placed, inflated and securely held in place, the lower end of each bracket arm 13 having an outturned rounded toe 14 to prevent the arm from injuring the tube 7.

In addition to the tube embracing arm 13, I generally prefer to form eyes 15 in and spaced along the lower edge of each tube to receive turn buttons 16 or other appropriate fastenings on the ends of bolts 17 secured to the body of the boat as shown, so as to hold the tube down in place.

To detach the tubes from the canoe for storage and transportation, it is only necessary to free the binding screws 12 from the gunwales, remove the brackets, unfasten the buttons 16 if used and deflate and remove the tubes.

I claim as my invention:—

1. A bracket for securing inflatable tubes detachably to the gunwales of a canoe or boat, having opposing arms to embrace the gunwale, a clamp on one gunwale arm, and a rigid arm outside the outer gunwale arm curved downwardly to receive from below and bind the inflated tube between it and the outside of the canoe.

2. A bracket for securing inflatable tubes detachably to the gunwales of a canoe or boat, having opposing arms to embrace the gunwale, a binding screw working in the inner gunwale arm against the inside of the boat, an inturned toe on the lower end of the outer gunwale arm to hook under the outer rail, and a rigid arm outside the outer gunwale arm curved downwardly, inwardly and then outwardly to bind the inflated tube between it and the outside of the boat without injury.

In testimony whereof I affix my signature.

ANTHONY FIALA.