(No Model.)

T. T. HODSON.

BOAT HULL.

No. 290,232. Patented Dec. 18, 1883.

Fig. 1.

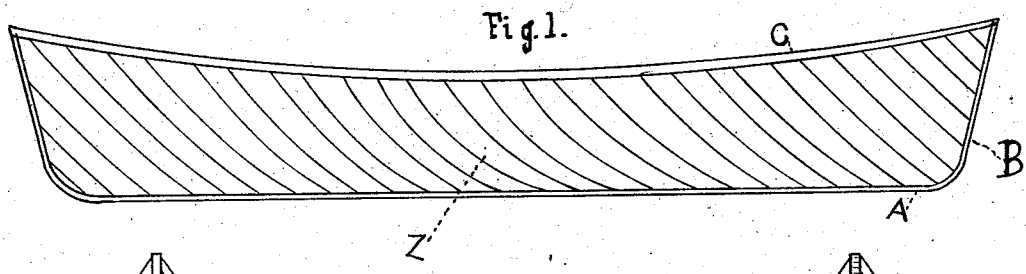


Fig. 2.

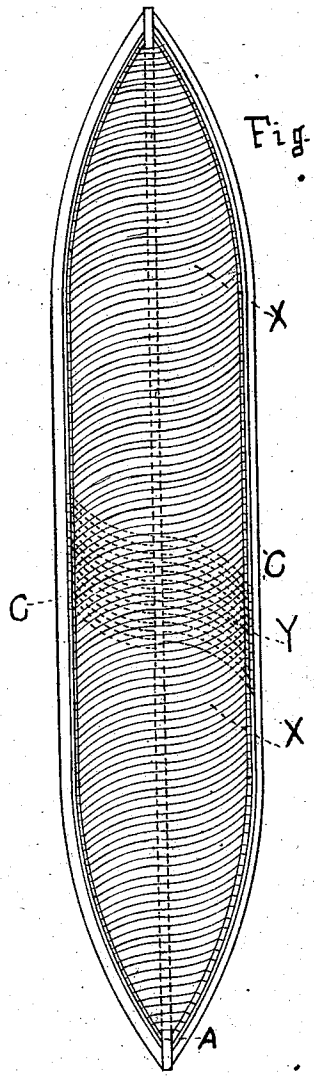


Fig. 4.

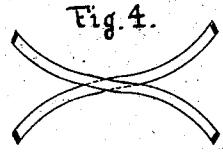


Fig. 5.

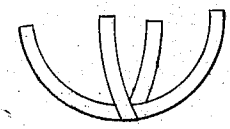
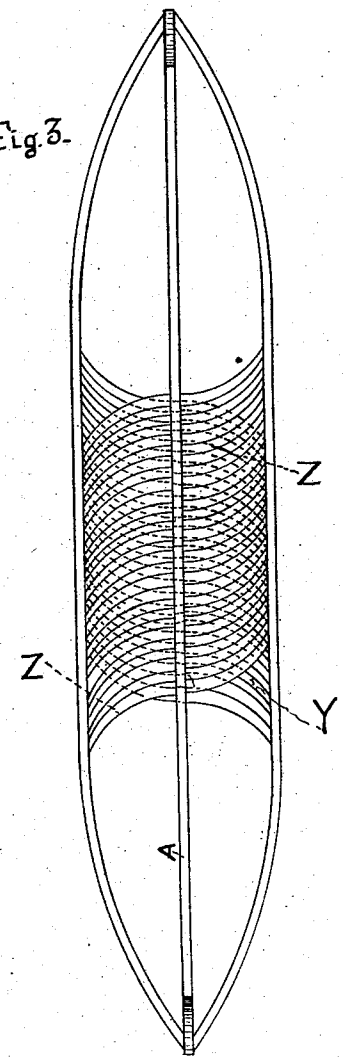


Fig. 3.



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UNITED STATES PATENT OFFICE.

THOMAS TOMLINS HODSON, OF LANSING, MICHIGAN.

BOAT-HULL.

SPECIFICATION forming part of Letters Patent No. 290,232, dated December 18, 1883.

Application filed October 18, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS TOMLINS HODSON, a citizen of the United States, residing at Lansing, in the county of Ingham and State of Michigan, have invented certain new and useful Improvements in Boat-Hulls, of which the following is a specification.

My invention relates to the structure of hulls of vessels of all kinds, but particularly to those of small boats, wherein it is very desirable to combine great strength and lightness with smoothness of inner and outer surface, and to dispense, so far as may be possible, with ribs, stays, braces, and thwarts.

The object of my invention is to accomplish these results in a more inexpensive, simple, and perfect manner than has heretofore been realized.

I seek to obtain these results in the manner hereinafter described, and illustrated by the accompanying drawings, wherein the same letter represents the same part in each figure.

Figure 1 represents a side view of a boat. Fig. 2 is a plan view of the same when upright; Fig. 3, a view of the bottom of the same; Fig. 4, a plan view of the double series of inner strips; Fig. 5, a side view of the same detached, but in proper position.

A is the keel; B, the stern-post; C C, the gunwales; Y Y, strips of narrow planking extending diagonally from gunwale to gunwale, and secured thereto and to the keel.

X X are strips of similar planking extending diagonally from gunwale to gunwale, but at an angle to the strips Y Y, secured in the same manner.

Z Z are two series of similar strips placed outside of and secured to the others, so as to form the outer sides and bottom of the hull. These pieces are arranged diagonally at an angle to the middle strips, and therefore parallel with the inner strips. The strips Z Z are only half the length of the others, being secured to the keel and gunwales. All the strips are riveted and secured together in the usual manner. The cracks between and through them may be filled with cement, calked, or covered with tarred paper. It is evident that this structure may be slightly varied without departing from the spirit of my invention. The angles at which the various strips are placed relative to the keel and to each other may be greatly changed. The outer diagonal strips, Z Z, might in some cases be omitted, the keel-piece being, in such case, properly secured to the bottom of the hull. The inner diagonal strips, Y Y, might also in some cases be dispensed with. The strips are bent or cut so as to conform with the model of the sides and bilge of the hull, and are secured together and to the frame of the hull in such manner and at such angles as tend to retain them in their proper position.

A boat constructed in such manner, it will readily be seen, is very light and simple. It has smooth surfaces both within and without, thus giving greater accommodations within than a boat of the same size, and moving through the water more freely than a boat of ordinary build. The sides of the hull so formed are capable of sustaining great lateral pressure, and do not require to be strengthened by cross-ribs. A hull having strips extending continuously and diagonally across the bilge will doubtless be much stronger, and therefore less likely to bend or break when aground on the center than a clinker-built boat. The diagonal and angularly-arranged strips form cross-grained layers, which resist and are not easily broken by contact with rocks or snags.

Having fully described my invention, what I desire to claim and secure by Letters Patent is—

1. A boat-hull the body of which is composed of inner diagonal strips of planking extending continuously from gunwale to gunwale, and of outer diagonal strips nearly at right angles to the inner strips, and extending from gunwale to gunwale.

2. In a boat-hull, the combination of the keel A, the stern-post B, the gunwales C C, the double series of diagonal strips X X Y Y, at right angles to each other and extending from gunwale to gunwale, and the outer diagonal strips. Z Z, parallel with the strips X X and extending from gunwale to keel.

THOMAS TOMLINS HODSON.

Witnesses:
CHAS. S. BURTON,
ED. F. BURTON.