

(No Model.)

B. B. PEASE.
DEVICE FOR PROPELLING BOATS.

No. 453,704.

Patented June 9, 1891.

Fig. 1.

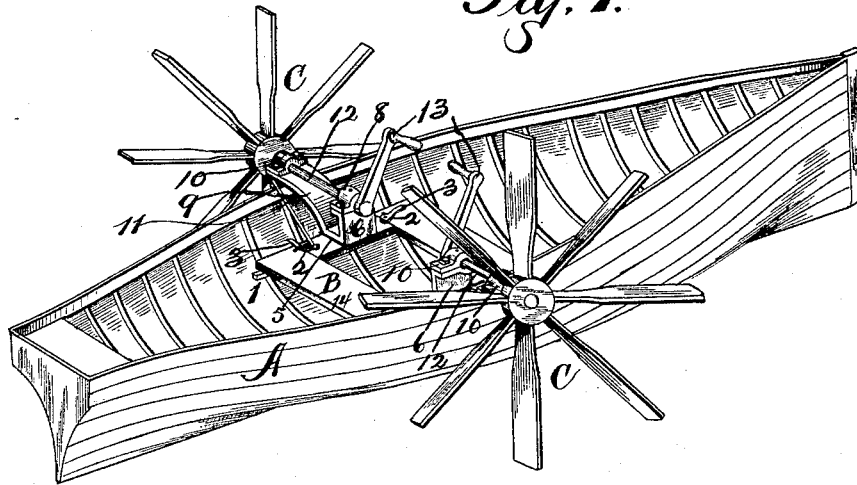


Fig. 2.

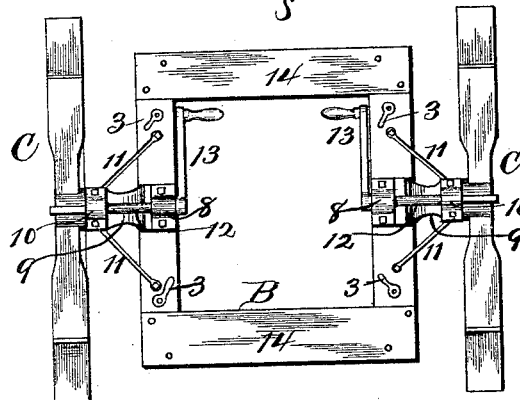
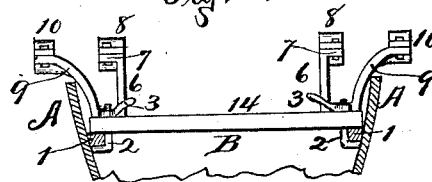


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

BENJAMIN B. PEASE, OF CASTLE CREEK, NEW YORK.

DEVICE FOR PROPELLING BOATS.

SPECIFICATION forming part of Letters Patent No. 453,704, dated June 9, 1891.

Application filed January 19, 1891. Serial No. 378,250. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN B. PEASE, of Castle Creek, in the county of Broome, in the State of New York, have invented new and
5 useful Improvements in Devices for Propelling Boats, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to the propulsion of
10 boats and mechanisms therefor.

My object is to provide improved crank-driven independently-operating side wheels mounted on separate shafts, being mounted in bearings mounted upon a frame detach-
15 ably secured within the boat and provided with side extensions arching upward over and projecting beyond the gunwale.

My invention consists in the several novel features of construction and operation here-
20 inafter described, and which are specifically set forth in the claims hereunto annexed.

It is constructed as follows, reference being had to the accompanying drawings, in which—

25 Figure 1 is an isometrical elevation of a boat with my propelling mechanism in position. Fig. 2 is a top plan of the propelling mechanism detached. Fig. 3 is a sectional elevation of the boat and frame carrying the
30 wheels, the shafts and cranks being omitted.

A is the boat, and 1 1 are risers or horizontal cleats, secured within it on opposite sides between the gunwale and keel.

B is a rectangular frame, supported upon
35 these risers and detachably secured in place by means of the bolts 2, which engage with them, and the hand screw-nuts 3 upon said bolts. Upon the opposite sides of the frame I secure the outriggers, each of which com-
40 prises a base 5, a vertical post 6, bent at the top to form the flange 7, said upper end and flange being adapted to form part of the journal or bearing 8, and 9 is an arm arching upward and outward in close proximity to
45 the gunwale and projecting beyond the gunwale like an outrigger, and adapted to form a part of a journal or bearing 10 on top of its outer end. Braces 11, connecting this

arm at its outer end to the frame, serve to steady the outrigger against lateral vibration. 50

C C are the paddle-wheels, each secured upon the outer end of a shaft 12, which is journaled in the bearings 8 and 10, and each shaft is provided upon its inner end with a crank-arm and handle 13. The side bars 14 55 of the frame B serve as seats for the operators.

It will be seen that the wheels can be operated together though mounted in separate bearings, or separately, both in the same di- 60 rection or in opposite directions. It will be further seen that the weight of the wheels does not bear upon the gunwales to spring them and rack the boat, and also that all of the lateral strain is borne by the frame and 65 through that by the body of the boat, its planking and ribs, and these are strongly reinforced by the strong risers and the length of their bearing upon them.

By loosening the hand-nuts the whole frame 70 and wheels can be removed from the boat.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A boat-propeller comprising a frame supported by risers within the boat and detach- 75 ably secured thereto, outriggers secured to the frame and arching over and projecting beyond the gunwale on both sides of the boat, a journal-bearing upon the outer end of each outrigger, a post erected upon the inner end 80 of each outrigger, a journal-bearing upon each post, a shaft journaled in the bearings on each side of the boat, cranks upon the inner ends of the shafts, and paddle-wheels upon the outer ends of the shafts, in combi- 85 nation, as set forth.

2. A boat-propeller comprising a frame supported by risers within the boat and detach- ably secured thereto, outriggers secured to the frame and arching over and projecting be- 90 yond the gunwales on both sides of the boat, a journal-bearing upon the outer end of each outrigger, a post erected upon the inner end of each outrigger, a journal-bearing upon each post, a shaft journaled in the bearings 95 on each side of the boat, cranks upon the

inner ends of the shafts, paddle-wheels upon
the outer ends of the shafts, and side braces
secured to the outer ends of the outriggers
and to the frame, in combination, as set forth.
5 3. The combination, with the boat and a
frame secured therein, of outriggers secured
to the frame and arching upward and out-
ward over the gunwale, and lateral braces se-

cured to the outriggers and to the frame on
each side, as set forth. 10

In witness whereof I have hereunto set my
hand on this 13th day of January, 1891.

BENJAMIN B. PEASE.

In presence of—

LEWIS ALLEN,

DARWIN HOWARD.