

(No Model.)

E. F. WARD.

ROWLOCK FOR RACING BOATS, &c.

No. 317,430.

Patented May 5, 1885.

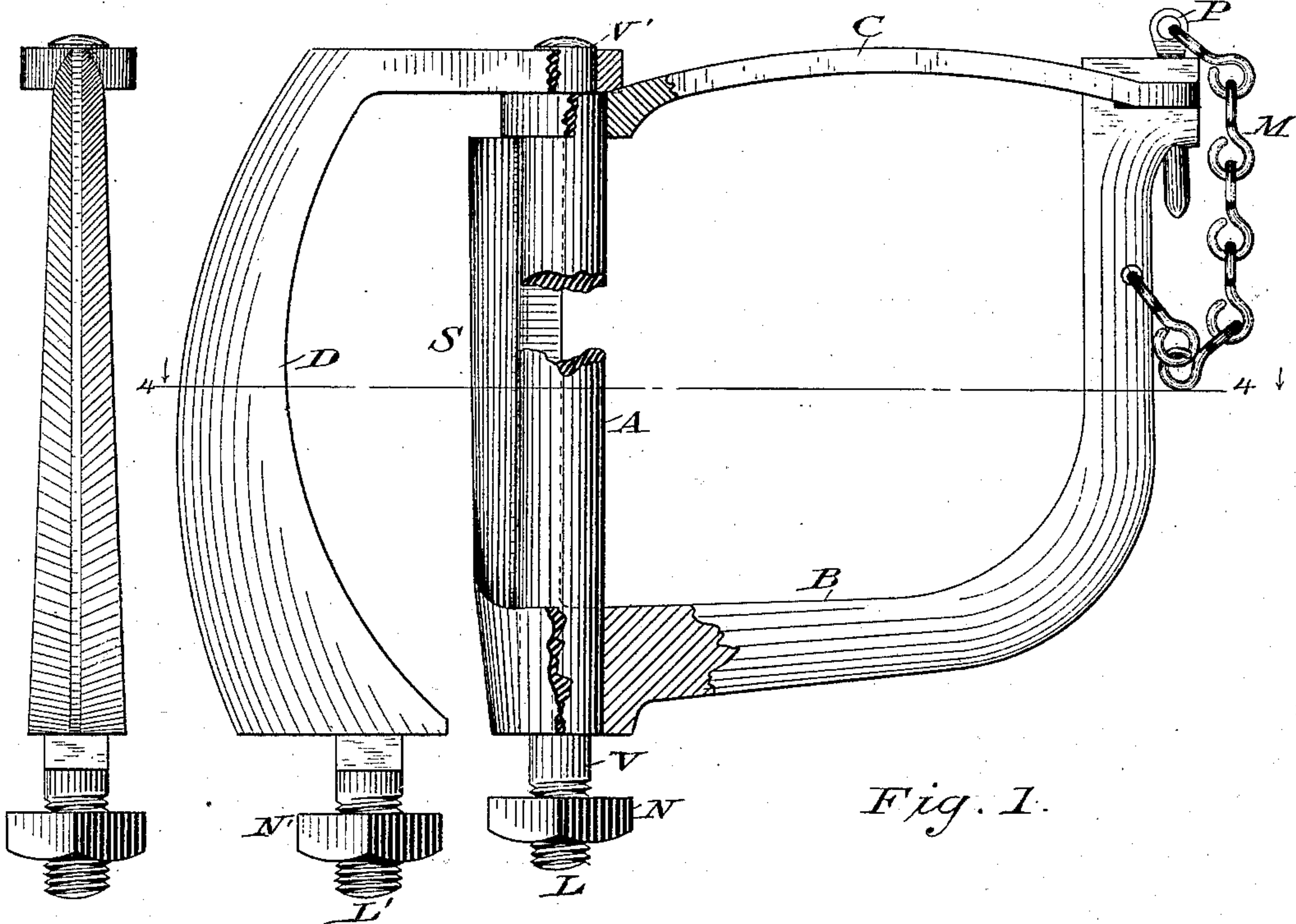


Fig. 1.

Fig. 2.

Fig. 3.

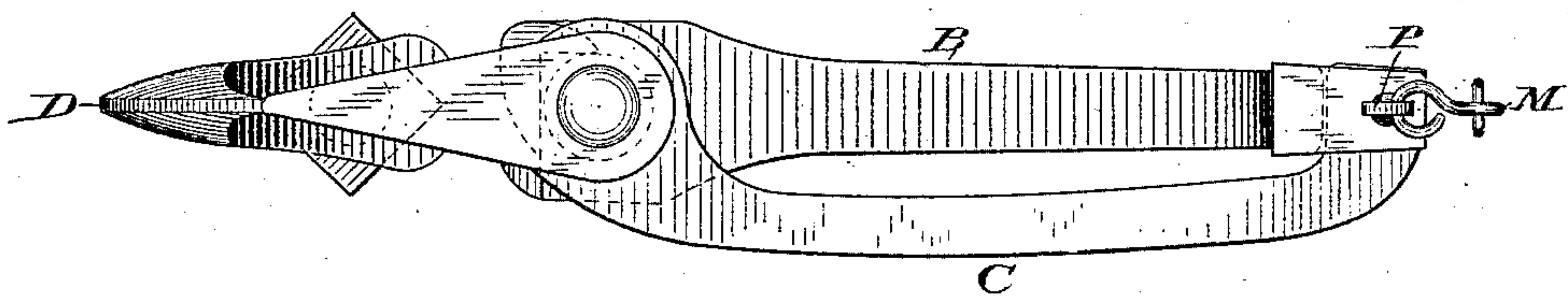
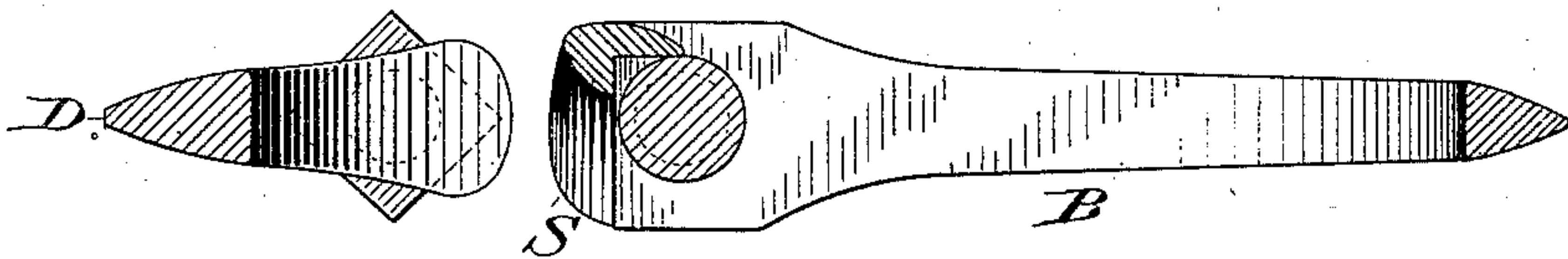


Fig. 4.



WITNESSES

Wm A. Skinkle  
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INVENTOR

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# UNITED STATES PATENT OFFICE.

ELLIS F. WARD, OF PHILADELPHIA, PENNSYLVANIA.

## ROWLOCK FOR RACING-BOATS &c.

SPECIFICATION forming part of Letters Patent No. 317,430, dated May 5, 1885.

Application filed July 21, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, ELLIS F. WARD, of Philadelphia, State of Pennsylvania, have made certain new and useful Improvements in Rowlocks for Racing and Row Boats, &c., of which the following description, taken in connection with the accompanying drawings, is a full and exact specification.

My invention relates particularly to what is known as "swivel-rowlocks," adapted particularly to pleasure and racing boats, as will be hereinafter described, and particularly claimed.

Referring to the drawings, Figure 1 represents a side view of my improved rowlock, showing parts in broken section. Fig. 2 is a rear elevation, looking at the lock as it would appear on the boat looking from the bow to the stern thereof. Fig. 3 is a horizontal plan view, and Fig. 4 a cross-section on line 4 4, Fig. 1.

Referring to the drawings in detail, A represents the thole-pin, shouldered at V and V', and on its lower end a nut, N.

D is a back brace adapted to brace the thole-pin in the rear by being fitted, as shown, over shoulder V, and having a nut, N, on its bottom lug, L'.

B represents the yoke, or that portion which sustains the oar. It is adapted to slide over the thole-pin, and is provided with a shoulder, S, against which the button of the oar can play while rowing.

O is the locking bar, fitted, as shown, over the thole-pin, and adapted to swing out horizontally so as to admit the oar, after which it is returned to position and locked in place by a pin, P, attached to a chain, M, in a manner well known. It will thus be seen that my improved rowlock is made of four distinct pieces, and that the part most liable to break—in this instance the thole-pin—may be replaced by any skilled mechanic, so that if by accident one breaks a lock he need not throw it entirely away, but may replace the part broken. The lock is attached to the outrigger or gunwale by nuts N N' on lugs L L', in the usual manner.

The special features of my lock are, first, that it is made in distinct pieces, any one of which may be readily replaced when lost or

broken; second, the thole pin presents full wide surface to the back of the oar; and, third, it is firmly braced from the rear by a detachable brace, which also holds all of the parts together in firm and compact relation.

I do not claim, broadly, a swivel-rowlock, nor a lock made of independent parts. Such I acknowledge to be old; but

What I do claim, and desire to secure by letters patent of the United States, is—

1. In a rowlock, the combination of a detachable thole-pin sustaining a yoke and lock-bar in swinging relation thereto, and being in turn sustained at its top by a detachable back brace, substantially as shown and described.

2. In a rowlock, the combination of the thole-pin and detachable lock-bar and yoke, the latter having an extended bearing over the whole length of the thole-pin, on the rear side of said thole-pin only, substantially as described.

3. In a rowlock, the combination, with a thole-pin attached directly to the gunwale or outrigger of a boat, of a yoke embracing directly the thole-pin, a lock-bar resting on the yoke and embracing the thole-pin near its top, in order that it may swing with the yoke, and a back brace attached to the upper end of the thole-pin and to the gunwale or outrigger and firmly holding the first-named parts together, all as substantially described.

4. In a rowlock, the combination, with the thole-pin attached directly to the gunwale or outrigger of a boat, and against which the oar has direct bearing, of a yoke for sustaining the oar embracing said thole-pin and resting directly on the gunwale or outrigger as it swings, substantially as described.

5. In a rowlock, the combination, with a thole-pin, of a yoke and lock-bar having pivotal connection with said thole-pin, a back brace firmly holding the aforesaid parts together in detachable relation, substantially as described.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

ELLIS F. WARD.

Witness:

JOHN A. WIEDERSHEIM,  
C. ELDER LINDSAY.