

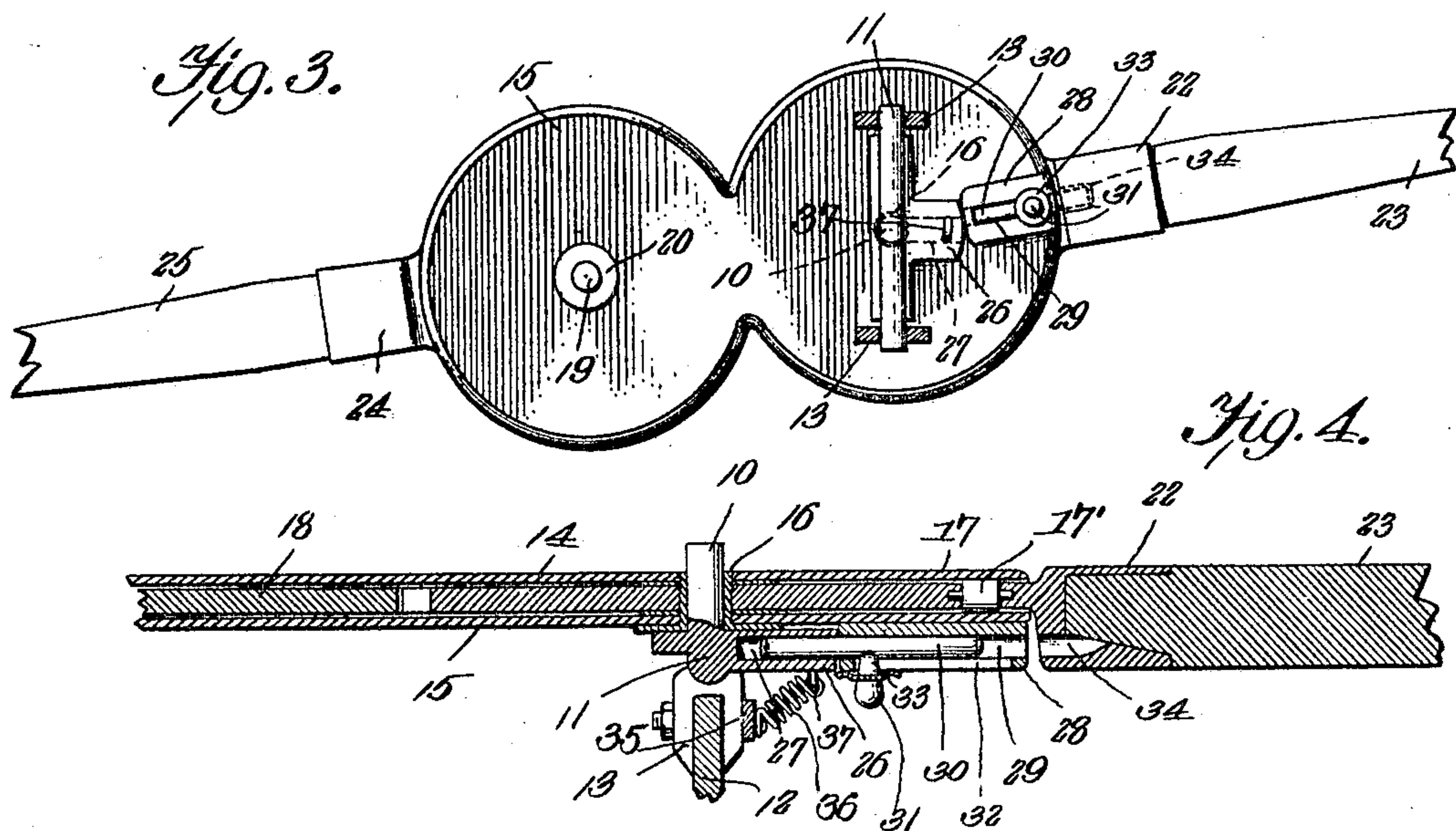
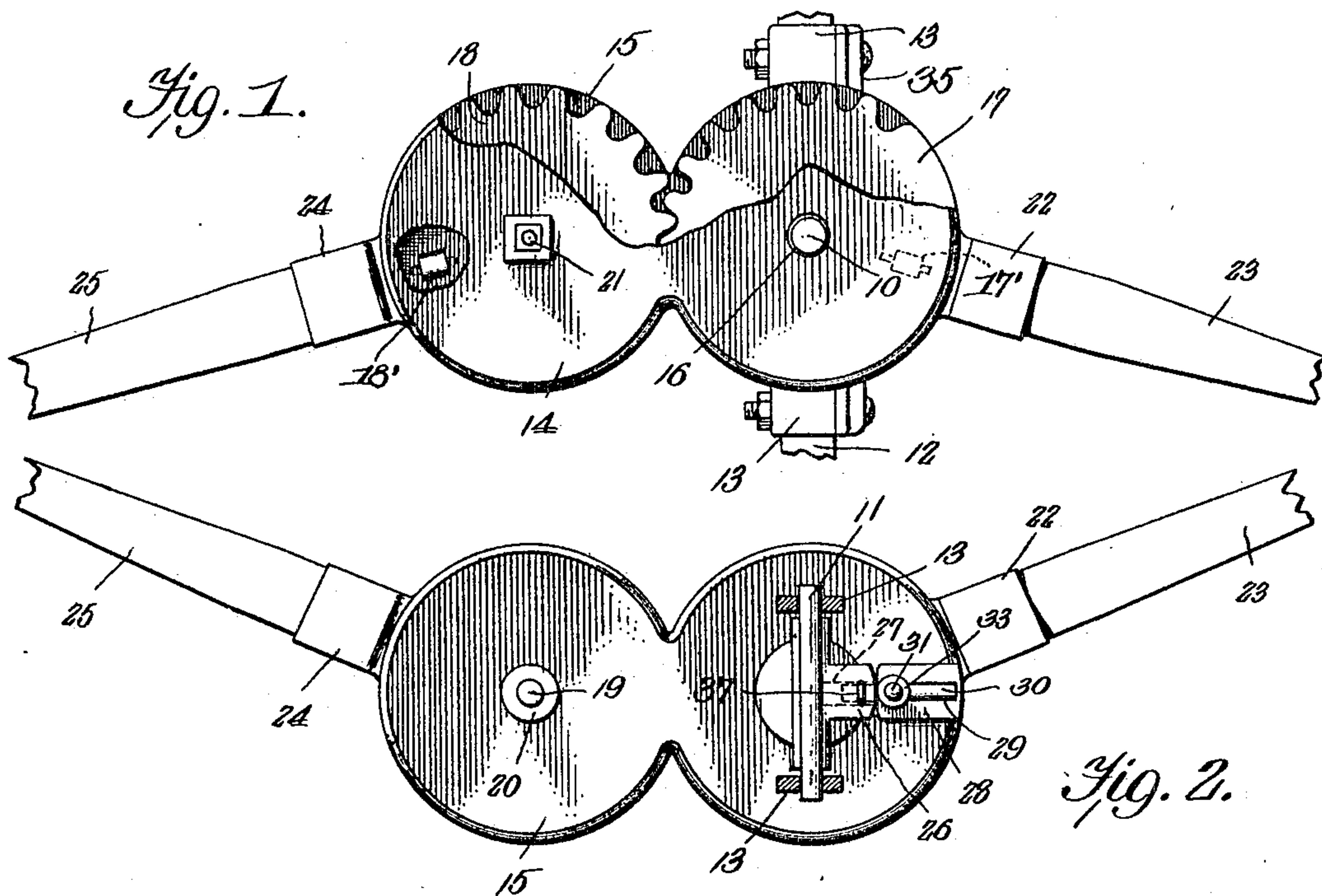
No. 819,792.

PATENTED MAY 8, 1906.

L. E. NOBLE.

OAR.

APPLICATION FILED JULY 31, 1905.



Witnesses

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LEONARD E. NOBLE, OF OAKFIELD, NEW YORK, ASSIGNOR OF ONE-HALF
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OAR.

No. 819,792.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed July 31, 1905. Serial No. 272,000.

To all whom it may concern:

Be it known that I, LEONARD E. NOBLE, a citizen of the United States, residing at Oakfield, in the county of Genesee and State of New York, have invented a new and useful Oar, of which the following is a specification.

This invention relates to oars, and has for its object to provide an oar embodying new and improved features of convenience and adaptability.

A further object of the invention is to provide an oar which may be converted at will from a bow-facing oar to a rigid oar, and vice versa, and as a rigid oar to be removed from the gunwale for storage.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made without departing from the spirit or sacrificing any of its advantages.

In the drawings thus employed, Figure 1 is a top plan view of the improved oar with a portion of the top plate broken away to exhibit the segments. Fig. 2 is a bottom view of the oar arranged to operate as a bow-facing oar. Fig. 3 is a bottom view of the oar arranged to operate as a rigid oar. Fig. 4 is a longitudinal sectional view of the oar.

Like characters of reference indicate corresponding parts in all of the figures of the drawings.

In its preferred embodiment the improved oar forming the subject-matter of this application comprises a stud 10, rigidly secured to the rock-bar 11, mounted to rock in any approved manner upon the gunwale 12 of a boat, as by journaling in the bearings 13. Upon the stud 10 is pivotally mounted coacting plates 14 and 15, spaced by a sleeve 16, encircling the stud 10 and upon which is journaled the segmental gear 17, disposed between the plates. Between the plates is also mounted the segmental gear 18, pivoted upon the pin 19, which is provided with a head 20 upon one side and a nut 21 upon the opposite side to hold the plates together.

Rigid with the segment 17 is the socket member 22, in which is secured in any approved manner the handle-section 23 of the

oar, and the segment 18 is provided with a similar socket member 24, in which is secured in like manner the blade-section 25 of the oar.

Within the segments 17 and 18 are secured the antifriction-rollers 17' and 18', respectively, said rollers being disposed adjacent the sockets 22 and 24, respectively. The rollers contact with the plates 14 and 15 and bear the weight of the handle and blade-section.

Rigid with the rock-bar 11 is a lug 26, extending toward the socket member 22 and adjacent the plate 15. The lug 26 is provided with an opening 27, perpendicular to the rock-bar, and upon the plate 15 is secured the boss 28, having a longitudinal opening 29 registering with and adjacent to the opening 27. Within the opening 29 is slidably mounted a bolt 30, controlled in any approved manner, as by the knob 31, extending through the slot 32 and engaging the bolt 30 and held frictionally, as by the spring-washer 33. The socket member 22 is provided with an opening 34, extending longitudinally of the member and arranged to register with the opening 29 and receive the bolt 30.

To assist in supporting the blade end of the oar, a spring is provided and connected in any approved manner, as by disposing a strip 35 between the bearings 13, to which is secured one end of the spring 36 and which is secured at its other end to an eye 37 on the lug 26.

With the parts adjusted as shown in Figs. 1 and 2 the bolt 30, by engaging boss 28 with lug 26, rigidly secures the plates 14 and 15 to the stud 10 and allows the segments 17 and 18 to move pivotally upon the sleeve 16 and pin 19, thereby producing a bow-facing oar mounted to rock laterally upon the rock-bar 11. With the bolt 30 moved from engagement with the lug 26 and into engagement with the socket member 22 the oar-section 23 becomes rigid with the plates 14 and 15 and pivoted to swing upon or be removed from the stud 10. The oar-section 23 being held rigid, the segment 18, engaging the segment 17, is also held rigid, and with it the oar-section 25, so that the entire device becomes a rigid oar pivoted to swing upon the stud 10 as an oar-lock or to be moved therefrom for storage or transportation. It will thus be seen that by the simple movement of the bolt 30 longitudinally the oar is almost instantly

and at will converted from a rigid to a bow-facing oar or the reverse.

It will be obvious that with the parts in position shown in Fig. 2 the bolt 30 may be
5 moved longitudinally out of engagement with the lug 26 and permit the removal of the device from the stud 10 and in condition to be folded with the oar-section 25 adjacent the handle-section 23 for convenience of
10 transportation or storage when that form is more convenient than a long rigid oar.

Having thus described the invention, what is claimed is—

1. A bow-facing oar comprising a pin
15 mounted for rocking movement on the gunwale of a boat, a plate pivotally mounted upon the pin, a pair of laterally-movable oar-sections carried by the plate, and a locking member mounted on said plate and adapted
20 to alternately engage the pin and one of the oar-sections for rigidly securing the pin and plate together and maintaining the oar-sections in alinement with each other.

2. A bow-facing oar comprising a pin
25 mounted for rocking movement on the gunwale of a boat and having a lateral socket formed therein, a plate pivotally mounted upon the pin, a pair of laterally-movable intermeshing oar-sections carried by the plate
30 one of which is provided with a recess, a bolt slidably mounted on the plate and adapted to alternately engage the socket in the pin and the recess in one of the oar-sections for

rigidly securing the plate and pin together and maintaining the oar-sections in aline- 35 ment with each other, and a spring interposed between the pin and the gunwale of the boat for yieldably supporting the plate in horizontal position.

3. A pin mounted to rock laterally upon 40 the gunwale of a boat, a plate rigidly secured to the pin, a bow-facing oar having toothed segments pivoted upon the plate and engaging each other and means whereby the segments may be rigidly secured to the plate 45 and the plate permitted to move pivotally upon and be slidably removed from the pin.

4. A pin mounted to rock laterally upon the gunwale of a boat, a plate mounted upon the pin, a sliding bolt carried by the plate 50 and securing the plate rigidly to the pin, a bow-facing oar having tooth-segments pivoted upon the plate and engaging each other and means for moving the sliding bolt out of engagement with the pin and into engage- 55 ment with the oar whereby the oar becomes rigid with the plate and the plate pivoted upon and removable from the pin.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 60 the presence of two witnesses.

LEONARD E. NOBLE.

Witnesses:

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