

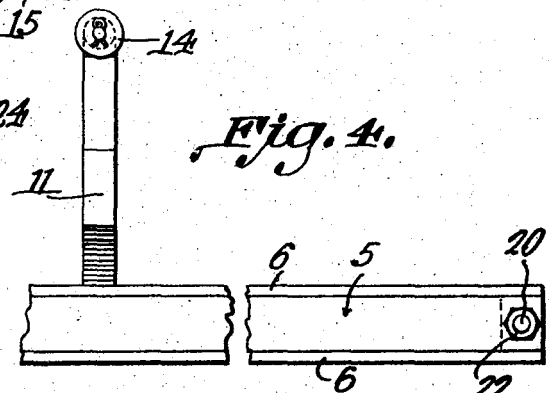
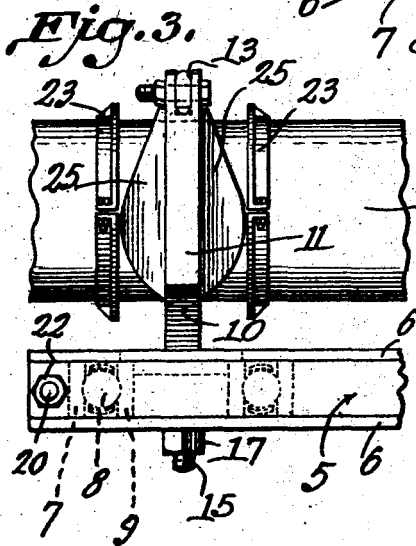
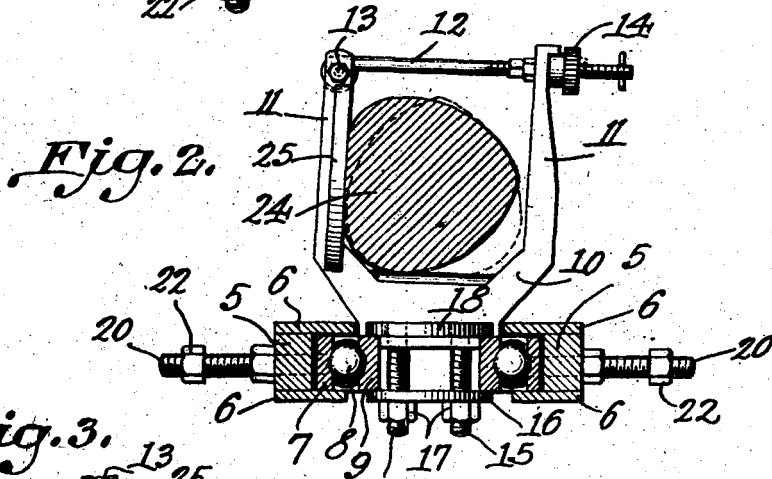
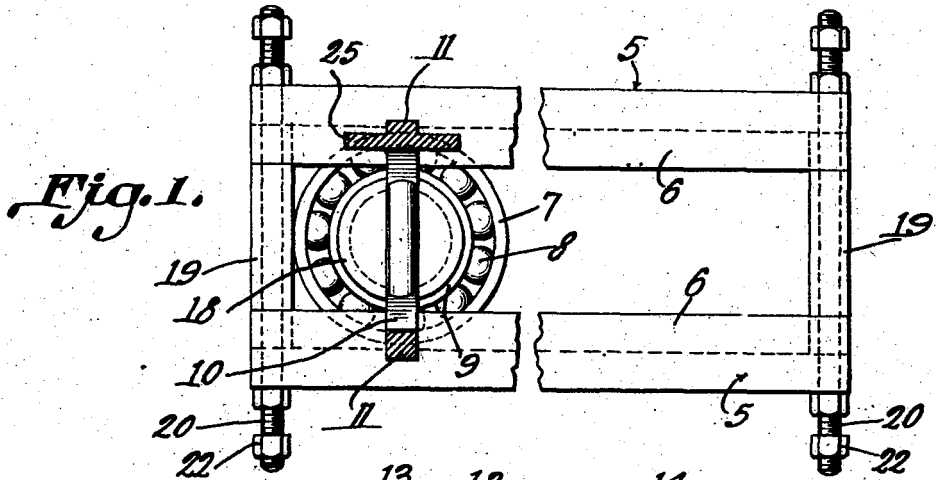
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OARLOCK

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UNITED STATES PATENT OFFICE.

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OARLOCK.

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The present invention relates to oar lock construction, and more particularly to oar locks especially designed for use on racing shells, outriggers or the like.

5 The primary object of the invention is to provide an oar lock which will move laterally of the shell while the same is in use, thereby permitting the handle portion of the oar to move longitudinally of the keel of the shell through the entire stroke and recovery, instead of in the arc of a circle as is the universal practice with the fixed oar lock.

15 Another important object of the invention is to provide means for supporting an oar in such a way that the oarsman may swing his body in a straight line, eliminating body twisting and swinging across the shell on each stroke and recovery to throw the boat off of its balance.

20 A still further object of the invention is to provide means whereby the length of the usual oars may be increased, thereby increasing the leverage creating a greater reaction against the oar lock, which reaction in turn tends to drive the shell.

25 With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:—

30 Figure 1 is a plan view illustrating an oar lock constructed in accordance with the invention a portion of the lock being shown in cross section.

Figure 2 is a sectional view through the lock.

35 Figure 3 is a sectional view through the oar lock taken at right angles to Figure 2.

Figure 4 is a side elevational view of the oar lock.

40 Referring to the drawing in detail, the oar lock includes a supporting track embodying parallel members 5, each of which includes an upper and lower plate 6.

45 A circular bearing member indicated at 7 is mounted between the members 5, and as shown, the member 7 is formed with a

groove to accommodate the balls 8 that also engage the circular bearing member 9 formed with a groove.

55 The body portion of the oar lock is indicated by the reference character 10 and includes upstanding parallel arms 11, the upper ends thereof being connected by the pivoted rod 12 pivotally connected to one of the arms 11 at 13, the opposite end of the rod 12 being positioned in a cut out portion formed in the opposite arm 11. A nut 14 operates on the rod 12 to secure the rod 12 in a position as shown by Figure 2, or in a position to lock an oar within the oar lock.

60 Formed integral with the body portion 10 and depending therefrom are the bolts 15 that also extend through the disk 16 which is of a diameter to rest on the member 9, and close the central portion thereof. Nuts 17 operate on the bolts 15 and act to secure the oar lock to the disk 16, which in turn cooperates with the flange 18 formed on the body portion 10 of the oar lock to clamp the oar lock to the member 9.

75 The members 5 are held in spaced relation with each other by means of the bars 19 that are disposed between the plates 6 of the members 5 there being provided bolts 20 extending through the bars 19 for supporting the oar locks to the usual arms of a scull that are provided for supporting the usual oar lock.

80 Nuts 22 operate on the outer ends of the bolts 20 and afford means whereby the oar locks may be secured to the usual oar lock supporting irons.

85 Collars 23 are provided on the oar which in the present showing is indicated at 24, which collars are adapted to rest on opposite sides of the arms 11 to insure against the oar sliding through the oar lock.

90 As clearly shown by Figure 3 of the drawing, one of the arms 11 is relatively wide as at 25 the side edges of the widened portion being inclined towards the upper and lower edge thereof, to permit the oar to rock freely while in use.

105 From the foregoing it will be obvious that due to this construction, the oar lock may slide longitudinally of the members 5 to the end that on the stroke, the oar lock will move towards the oarsman, while on the recovery the oar lock will move towards the outer ends of the members 5, compensating

for the lengthening and shortening of the oar under the pull of the oarsman.

I claim:—

1. In a device of the character described, 5 parallel members, a circular bearing member mounted between the parallel members, a supporting member within the bearing member, ball bearings arranged between 10 the bearing member and supporting member, and an oar lock secured to the supporting member.

2. In a device of the character described, 15 parallel members providing a track, spaced plates forming a part of each parallel member, an oar lock positioned between the parallel members, means for supporting the oar lock and operating between the plates to permit the oar lock to move longitudinally 20 of the parallel members when the oar is being operated, and means for closing the upper end of the oar lock.

3. In a device of the character described, 25 parallel members providing a trackway, a supporting member operating over the trackway, an oar lock secured to the supporting member, means for securing the oar lock to the supporting member to permit the oar lock to swing in a horizontal plane,

and said oar lock adapted to move longitudinally of the trackway while in use. 30

4. In a device of the character described, a pair of parallel members providing a track, a bearing member supported within the track, a circular supporting member 35 mounted within the bearing member, balls supported between the bearing member and supporting member, an oar lock including depending bolts adapted to pass through the supporting member, a disk having an opening through which the bolts extend, said 40 disk adapted to engage the lower surface of the supporting member to secure the oar lock to the supporting member, and said oar lock adapted to move longitudinally of the track. 45

5. In a device of the character described, a trackway adapted to be supported laterally of a boat, an oar lock mounted within the track and adapted to move longitudinally thereof while in operation, said oar lock 50 adapted to swing in a horizontal plane, and means for closing the upper end of the lock.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

GUY EDWIN LONG.