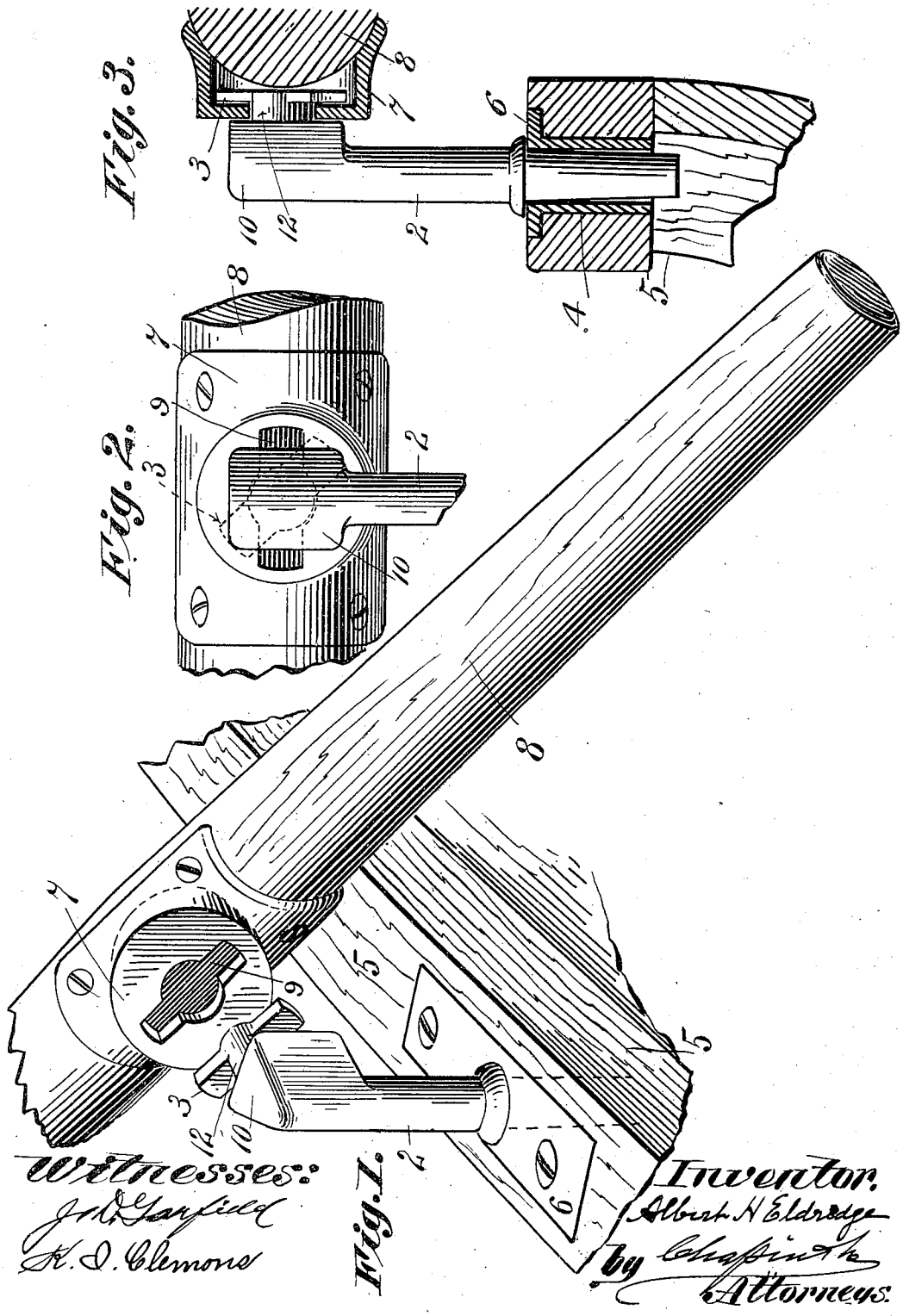
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A. H. ELDREDGE.

OAR AND ROWLOCK CONNECTION.

Application filed Sept. 6, 1900.

(No Model.)



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UNITED STATES PATENT OFFICE.

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OAR AND ROWLOCK CONNECTION.

SPECIFICATION forming part of Letters Patent No. 662,227, dated November 20, 1900.

Application filed September 6, 1900. Serial No. 29,161. (No model.)

To all whom it may concern:

Be it known that I, ALBERT HENRY ELDREDGE, a citizen of the United States of America, residing at Ware, in the county of Hampshire and State of Massachusetts, have invented new and useful Improvements in Oar and Rowlock Connections, of which the following is a specification.

This invention relates to oar and rowlock connections for row-boats, the object being to provide devices of this character of improved construction, simple and convenient of manipulation, and less expensive than many heretofore known; and the invention consists in the peculiar construction of the part attached to the oar and the part constituting the sole connection between the oar and the boat, all as hereinafter fully described, and more particularly pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view showing a part of a boat on which the oar is hung for use, a portion of an oar, and rowlock connections between said oar and boat part constructed according to my invention. Fig. 2 is a side elevation of a part of an oar, showing the rowlock-engaging plate thereon and a rear side elevation of the rowlock-stud in engagement therewith. Fig. 3 is a sectional elevation showing a portion of said boat part and the rowlock-stud socket therein, a semicircular cross-sectional part of an oar, a cross-section of the stud-engaging plate thereon, and a side elevation of said rowlock-stud in operative engagement with said plate and boat part.

Referring to the drawings, 5 indicates a section of the gunwale of a boat to which the rowlocks or their connections are usually applied, and 4 indicates the socket of a rowlock-stud, which socket has the surface-plate 6 secured in said section 5 by screws through said plate, as shown. The said rowlock-stud 2 has its lower end entering said socket 4 and is supported vertically therein and free for the reciprocating rotary movements which are due to its connection with the oar 8, as below described, when the oar is in use. Said stud 2 is provided with a head 10, having a flat side, from which projects a short arm 12 at a right angle to the axis of the stud and to the said flat side of the head 10 thereof. On the extremity of said stud-arm 12 is the oar-locking bar 3, having a position more or less inclined in a direction across the axis of the stud, as shown, for a purpose hereinbelow set forth. An oar-plate 7 of the general conformation shown in the several figures of the drawings, having a projecting hollow boss thereon, in which is a slot 9, is secured on the side of the oar 8. Between the inner face of said bar 3 and the said face of the head 10 is a space somewhat wider than the thickness of the face of said circular boss of the oar-plate 7, in which face is a slot 9, having a conformation which adapts it to permit the said bar 3 to pass through it into the interior of said oar-plate 7 to the positions indicated in Figs. 2 and 3, whereby the oar becomes so connected to said stud 2 and through the latter to the boat to which the devices may be attached, that all of the requisite rowing motions of the oar may be made with perfect ease while connected to the boat, as stated. The borders of the central portion of said slot 9 are circular and constitute the bearing-surfaces for the oar on the part of said arm 12 between said bar and the stud 2. The said inclined position of the oar-locking bar 3 relative to the axis of said stud 2 provides for properly locking the oar to the latter when the parts are in the positions they generally occupy during the action of rowing, as shown substantially in Figs. 2 and 3, the dotted-line position of said bar 3 in Fig. 2 indicating the relative positions substantially of said bar and the slot 9 while the oar is in use, of course varying slightly with the vertical movements of the oar.

When the oar is connected with or disconnected from the stud 2, it is turned to the angle of incline substantially as shown in Fig. 1, and being then swung to about the position of Fig. 3 it is ready for use.

The rowlock-stud 2 is shown in Fig. 3 set in a common socket 4 on the boat part 5; but it is preferable that an ordinary interlocking stud and socket be used, whereby the unintentional lifting of the stud from the socket would be avoided.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. An oar and rowlock construction comprising a rowlock-stud for engagement with a suitable supporting-socket on a boat, and free to reciprocally rotate in said socket with the swinging movements of an oar, an oar-supporting arm extending from the side of said stud, a bar on said arm beyond the side of said stud extending in an inclined direction across the axis of said stud, combined with a plate forming a connection between said stud and an oar having a hollow boss thereon and an opening in the face of said boss through which said bar may pass and the borders of which opening provide bearings whereby said boss may oscillate on said arm, and said bar may meanwhile engage the inner wall of said boss, thereby operatively connecting the oar to said stud, substantially as described.

2. The rowlock-stud 2 having the arm 12 and the oar-engaging bar 3 fixed on the extremity of said arm in a position inclined across the axis of said stud, combined with the oar-plate 7 having a hollow boss thereon, and an opening therein through which said bar and arm may pass, whereby said bar may engage the inner wall of said boss, and an oar attached to said plate having a free swinging connection with said stud, substantially as described.

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