July 23, 1929. S. E. LANDBERG 1,721,665

ROWLOCK

Filed May 14, 1928

Fig. 1

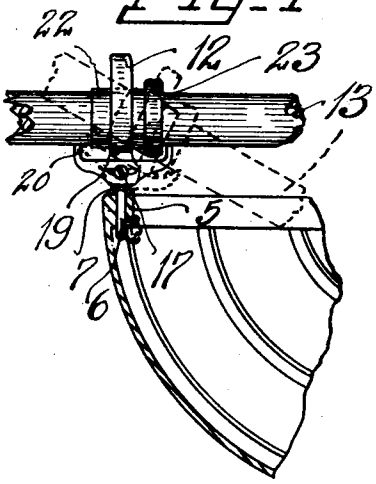


Fig. 2

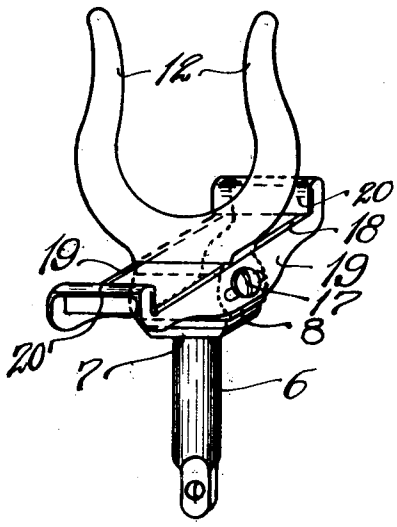


Fig. 3

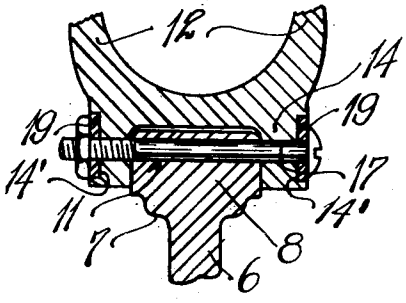


Fig. 4

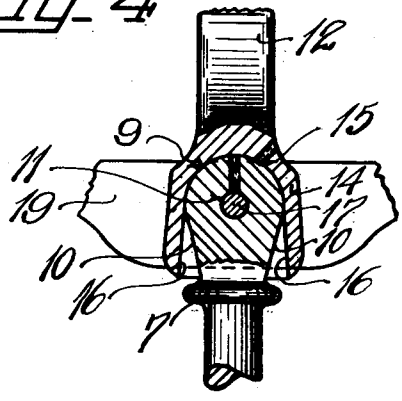
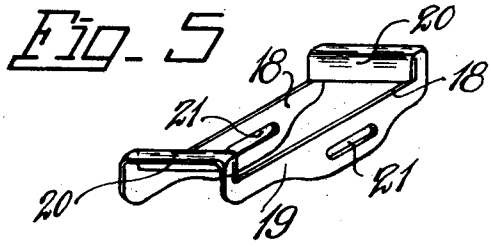


Fig. 5



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Patented July 23, 1929. 1,721,665

UNITED STATES PATENT OFFICE.

SWAN E. LANDBERG, OF SEATTLE, WASHINGTON.

ROWLOCK.

Application filed May 14, 1928. Serial No. 277,438.

My invention relates to rowlocks and the primary object of the invention is to provide a rowlock having a pivotal connection between its upper or U-portion and its lower or socket arm portion thereby providing flexibility of movement for the rowlock when rowing in contradistinction to the stiff and fixed rowlocks of present day use. Further objects are to provide a bracket frame for retaining an oar in place when rowing and adjustable means for the bracket.

With the above and other objects in view which will appear as the description proceeds, the invention consists of the novel construction, adaptation, combination and arrangement of parts hereinafter described and claimed. These objects are accomplished by devices illustrated in the accompanying drawings; wherein:—

Figure 1 is a view in transverse vertical section of a fragmentary portion of a row-boat showing my rowlock installed in its socket in the gunwale portion of the boat and showing a portion of an air positioned therein for rowing;

Fig. 2 is a view in perspective of the rowlock with its bracket frame secured thereto;

Fig. 3 is a view in transverse vertical section of a portion of the rowlock showing its pivotal connection;

Fig. 4 is a view in longitudinal vertical section of the same; and

Fig. 5 is a detail view in perspective of the bracket frame.

Referring to the drawings throughout which like reference numerals designate like parts, the numeral 5 indicates the gunwale portion of a row-boat with the socket arm portion 6 of my device installed in its socket in said gunwale and adapted to turn on its axis in the regular manner. An annular shoulder 7 of said socket arm rests on the top of the gunwale and the upper portion of said arm above said shoulder is enlarged to form a cross-head 8. As shown in Fig. 3 said cross-head is slightly longer than in the opposite direction shown in Fig. 4 wherein it will be noted that its upper surface is rounded, as at 9, while its sides converge, as at 10, to the shoulder 7. A hole 11 is provided through said cross-head as clearly shown in the drawings.

The upper portion of the rowlock is provided with the usual horns 12 wherein an oar 13 is adapted to rest in the ordinary manner. The base 14 of said upper portion is larger than the cross-head 8 and is provided with a socket 15 to receive the cross-head as clearly shown in Figs. 3 and 4. The upper wall of said socket is rounded in conformity with the rounded portion 9 of the cross-head, while its side walls 16 diverge slightly to form an angular space with the convergent sides 10 of said cross-head as shown in Fig. 4.

The cross-head 8 of the lower or socket arm rowlock portion is inserted in the socket 15 in the base 14 of the upper or U-portion and a bolt 17 is passed concentrically through said base and the hole 11 in said cross-head thus providing a pivotal connection between the upper and lower rowlock portions. Again referring to Fig. 4 it will be obvious that the upper portion of the row lock may be pivotally moved back and forth on said bolt and the walls 16 of the socket will contact with the sides 10 of the cross-head thus restricting the pivotal movement of said upper rowlock portion as will be readily understood.

A bracket frame designated as a whole by the numeral 18 is secured to the base 14 of the upper rowlock portion for reasons now set forth. Said bracket frame may be formed from a single piece of metal and comprises sides 19 and upstanding end shoulders 20. Slots 21 are provided in said sides through which the bolt 17 passes to hold said sides securely in the slot 14′ on the base of said upper rowlock portion as shown in Fig. 3. In order to adjust the bracket frame the nut on said bolt is loosened and the bracket is shifted backwards or forwards as desired and the nut is then tightened up. Thus the spaces between the end shoulders 20 and the base 14 on either side thereof may be altered whenever desired.

Referring to Fig. 1 of the drawings, oars are usually provided with leather collars secured thereto such as shown at 22 to protect wearing down of the wooden oar, and said collars are ordinarily provided with an annular shoulder or boss on their inboard ends, such as shown at 23, to bear against the rowlock and prevent the oar from slipping out of same. Said annular shoulder is therefore adapted to fit down between the end shoulder 20 and the base 14 on either side thereof to hold the oar in place so that the upper or U-portion of the rowlock will pivotally move with the oar when same is dipped into the water or raised therefrom while rowing the boat as will be understood. As hereinbefore stated said bracket frame may be adjustably shifted

by sliding the slots 21 on the bolt 17 to fit annular collars of different sizes.

It will now be apparent that I have provided a comparatively simple and inexpensive rowlock with its upper portion adapted to pivotally move with the motion of the oar when rowing in addition to pivotally moving on its vertical axis whereby an easy flexible movement of the oars will result in adding materially to the facility as well as to the pleasure of rowing a boat.

Having thus described my invention, it being understood that minor changes may be resorted to as do not form a departure from its scope and spirit, what I claim and desire to secure by Letters Patent of the United States is:—

1. In a rowlock the combination with a socket arm having a cross head and downwardly converging faces on said head, of a U-portion having a hollow base with upwardly converging faces to permit and limit a rocking movement on the head, a pivot bolt through the base and head, and means carried by the base portion for co-action with an oar to prevent longitudinal displacement of the oar.

2. In a rowlock, the combination with a cross head having a rounded top and downwardly converging side faces, of a pivoted U-portion having a hollow base, an upper rounded interior face and interior faces diverging therefrom, and a pivot bolt passed through said head and base.

3. In a rowlock the combination with a socket arm and a U-portion pivoted to rock thereon, of an open frame and means for fastening the frame to said U-portion, and shoulders on opposite ends of the frame for co-action with an oar to prevent longitudinal displacement of the oar.

4. In a rowlock, the combination with a socket arm, a U-portion having a base pivoted on the arm and a pivot bolt, of a rectangular open frame having slotted side walls through which the bolt passes, and end shoulders on said frame for co-action with an oar to prevent longitudinal displacement of the oar.

In testimony whereof I affix my signature.

SWAN E. LANDBERG.