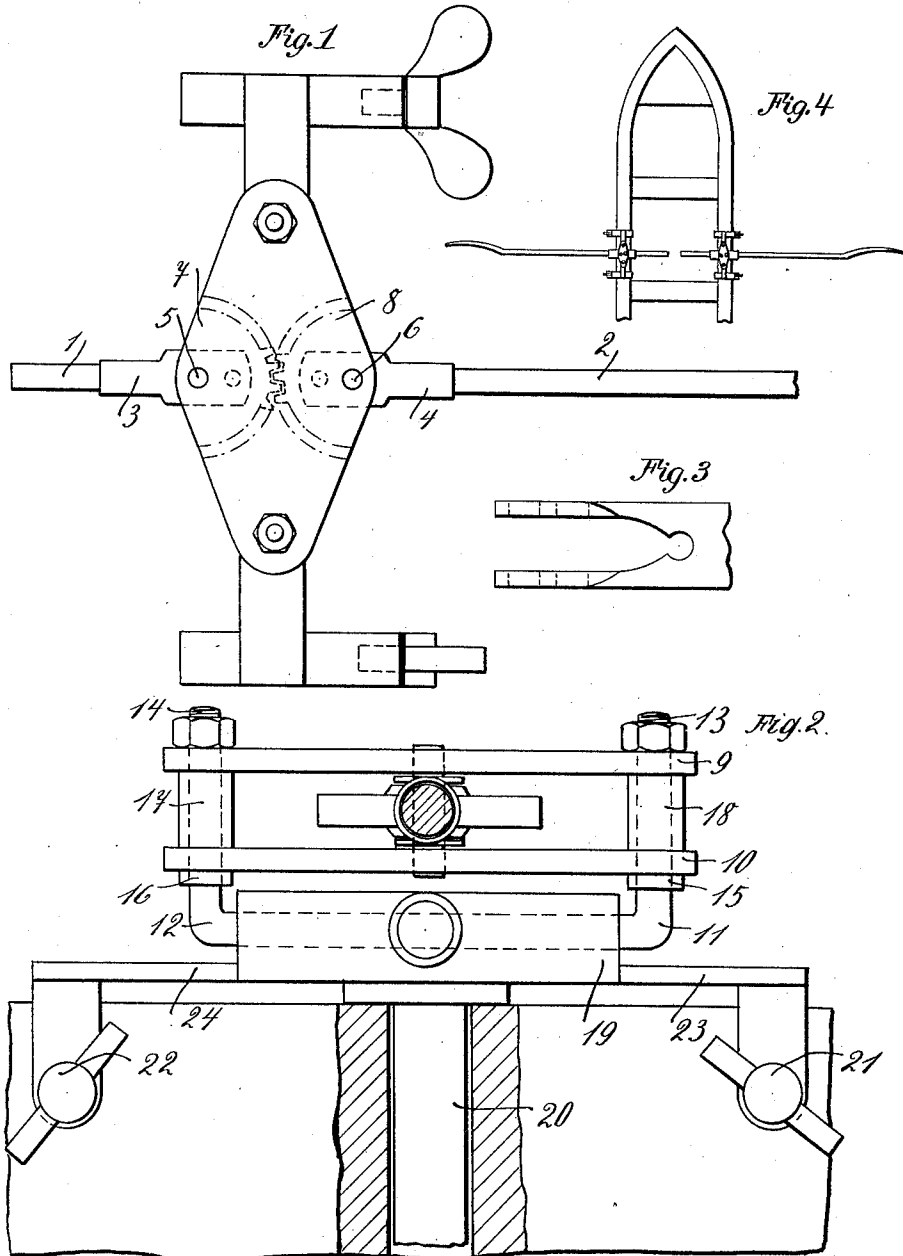


F. KASELOWSKY.
 ROWING APPARATUS.
 APPLICATION FILED DEC. 19, 1910.

1,006,561.

Patented Oct. 24, 1911.

3 SHEETS—SHEET 1.



Witnesses:
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Inventor:
 Ferdinand Kaselowsky

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2 SHEETS—SHEET 2.

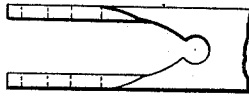


Fig. 3.

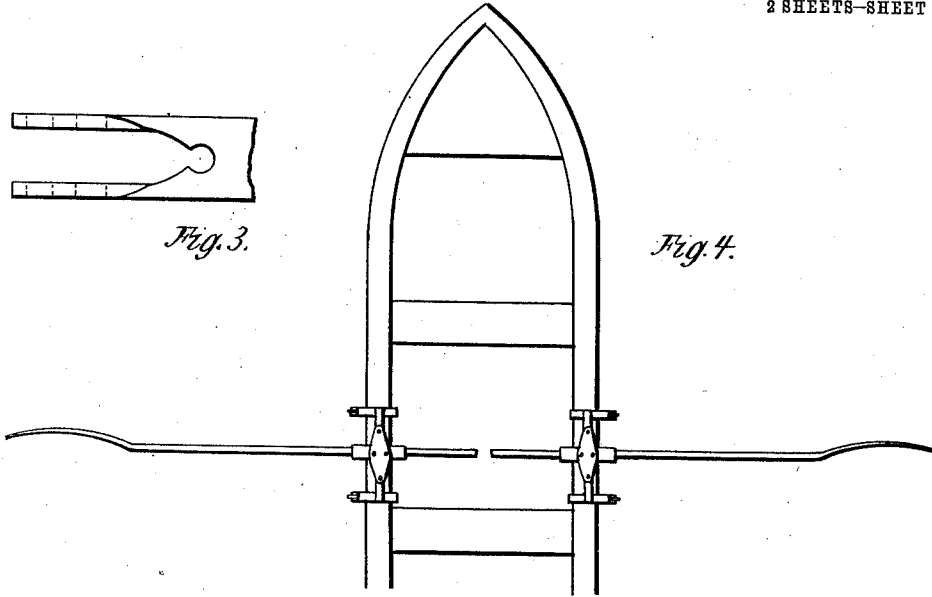


Fig. 4.

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UNITED STATES PATENT OFFICE.

FERDINAND KASELOWSKY, OF BERLIN, GERMANY.

ROWING APPARATUS.

1,006,561.

Specification of Letters Patent.

Patented Oct. 24, 1911.

Application filed December 19, 1910. Serial No. 598,177.

To all whom it may concern:

Be it known that I, FERDINAND KASELOWSKY, a subject of the Emperor of Germany, residing at Berlin, in the Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in Rowing Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Various apparatus are already known for rowing in the direction of one's view. All these apparatus, however, have the disadvantage, that their attaching necessitates either extensive alterations in the boat itself or that oars of unusual shape must be employed, to which the general public will not get accustomed. The arrangements hitherto employed partly also showed the danger of a piece of the clothing being caught in the transmission gear. In the apparatus according to the present invention these disadvantages are obviated, by particular attention having been paid toward employing oars of the usual shape, and that the attaching to the boat necessitated no constructional alterations to the same. The oar does not essentially differ from the pattern generally employed. Care has been taken that the transmission gears have been completely covered, so that there is no danger of the clothing or the like getting caught or spoiled.

In the accompanying drawing a constructional form of the present invention is exemplified.

Figure 1 is a plan view of the apparatus. Fig. 2 is a side view of the apparatus, attached to a boat. Fig. 3 is a detail view showing the socket into which the parts of the oar are inserted. Fig. 4 is a plan view of a boat with a pair of oars made according to the present invention.

The oar is divided at the handle-end in two parts 1 and 2. Both parts are fitted into tubular sockets 3 and 4 to which are attached toothed segments 7 and 8 engaging

in each other and swiveling on pivots 5 and 6. Part 1 of the oar serves as handle part 2 is fitted with the blade. The two toothed segments are arranged between two plates 9 and 10, Fig. 2, which are held together by means of a U-shaped part 11, 12, the ends 13, 14 of which are fitted with a male thread and are provided with collars 15, 16, against which the lower plate 10 rests. Between plates 9 and 10 distance pieces 17, 18 are fitted over ends 13, 14. The yoke of the U-shaped part 11 12 is arranged to swivel in a bearing 19, which has a pin 20, with which it may be fitted into the thole-board of a boat similarly to a common thole. For preventing the bearing 19 from turning on pin 20, the bearing is secured by means of two extensions 23, 24 provided with screw-clamps 21, 22 to the thole-board.

From the arrangement of the apparatus shown and described the reverse movement of the parts 1 and 2 when actuated is evident.

The present invention has the advantage, that it allows of turning the oar in a vertical plane, so that the oar may be dipped and raised out of the water in rowing.

I claim:

Apparatus for rowing in bow-facing position consisting of an oar comprising two parts, said parts positively coupled with each other that their movements are reversed, the said parts of the oar fitted to toothed segments swiveling between two plates, the said plates held together by means of a U-shaped part, the yoke of said U-shaped part swiveling in a bearing, said bearing provided with a thole-pin and screw clamps at both ends to prevent the bearing turning around said thole-pin.

In testimony whereof I affix my signature in presence of two witnesses.

FERDINAND KASELOWSKY.

Witnesses:

BOHMNIL KIROSKO,
HUGH GRAMATSKI.