

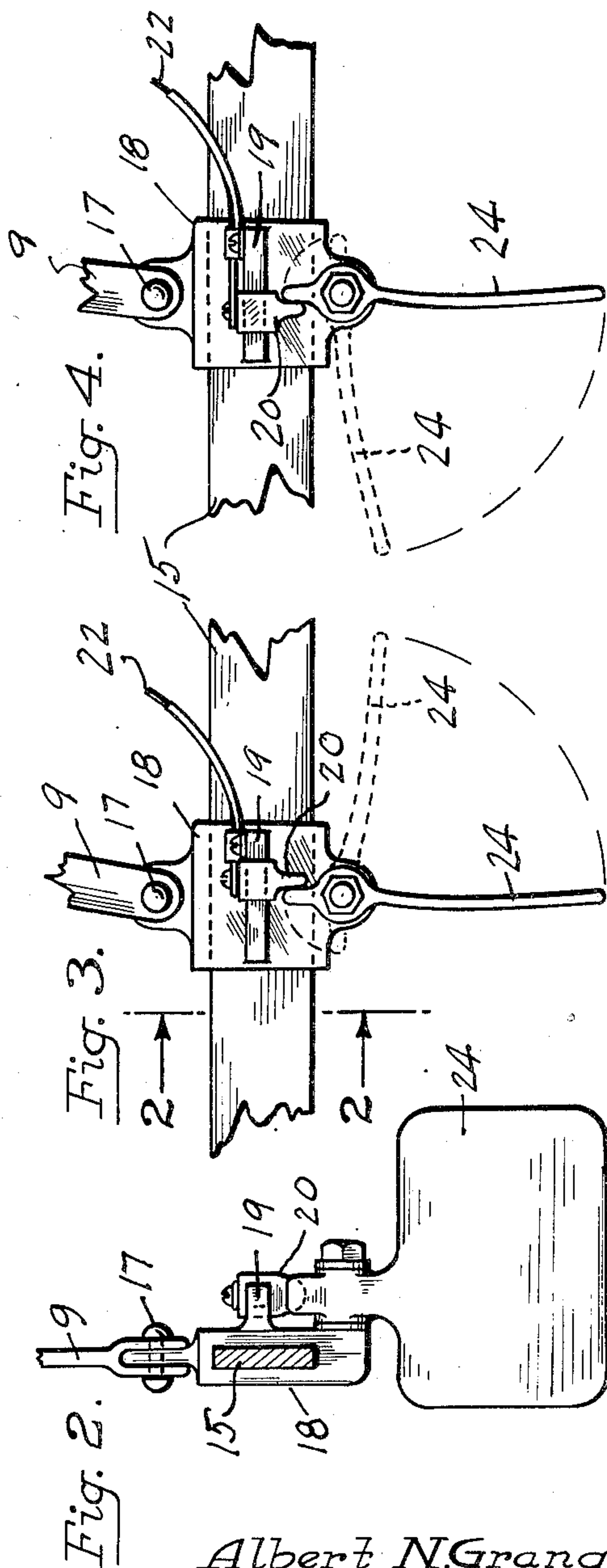
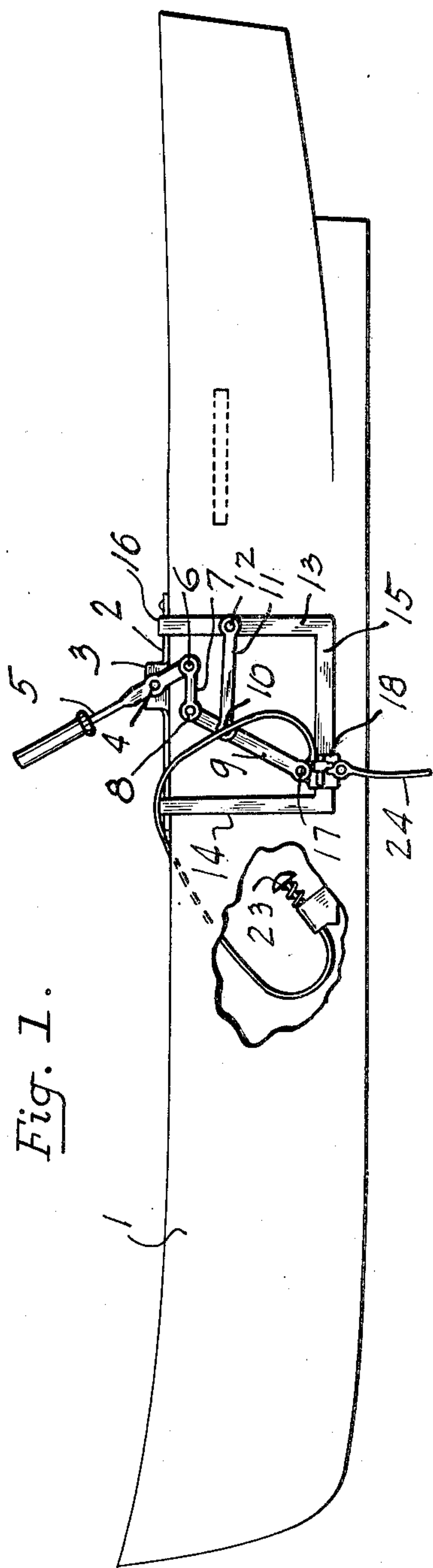
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ROWING DEVICE

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ROWING DEVICE

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1 Claim. (Cl. 115—21)

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This invention relates to improvements in oar actuating mechanisms applicable to rowboats and has for one of its principal objects the provision of means for enabling an operator to row a boat in a forward direction while facing in the same direction.

A further object is the provision of means for feathering the rowing paddles on the back-stroke.

A still further object is the provision of means for conveniently shifting certain elements of the invention for reversing the operation of the paddles so that the boat may be rowed in a conventional manner if desired.

These and other objects will appear as my invention is more fully hereinafter described in the following specification, illustrated in the accompanying drawing and finally pointed out in the appended claim.

In the drawing:

Figure 1 is a side elevation of a rowboat showing my invention operatively applied thereto.

Figure 2 is a sectional end elevation taken along the line 2—2 of Figure 3.

Figures 3 and 4 are side elevations of Figure 2 showing a paddle and its related parts in two positions of operation.

Referring now more particularly to the drawing.

Reference numeral 1 indicates either side of a rowboat to the top edge of which is secured a bar 2 by any suitable means, such as screws, bolts or the like. Intermediate the ends of the bar is mounted a bearing block 3 for rotatably supporting a shaft 4 to which is attached an actuating handle 5 to whose lowermost end is pivotally attached, as at 6, one end of a link 7. The opposite end of the link is pivotally attached as at 8, to a rocker arm 9 which is pivotally connected as at 10, to a bracket 11. The opposite end of the bracket is secured as at 12 to a frame consisting of hangers 13 and 14 and a track or rail 15 interconnecting their lower ends. The upper ends of the frame are secured as at 16 to the bar 2 by any suitable means.

To the lowermost end of the arm 9 is pivotally attached, as at 17, a yoke 18 which is slidably mounted on the track 15. On one wall of the yoke I form a track 19. Slidably mounted upon this track is an abutment 20 adapted to be held in any adjusted position thereon by a cable 22 attached thereto and terminating in a movable foot rest 23 on the interior of the boat.

As viewed in Figures 1 and 3 the abutment 20

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is held in position through the cable by the foot of the operator to maintain the paddle 24 in the position shown in full lines for the back stroke and to allow it to feather into the position shown in dotted lines in Figure 3 for the forward stroke. When the abutment 20, is moved to the left as viewed in Figure 4, the paddle 24 operates in a manner opposite to that shown in Figure 3.

While I have shown a particular form of embodiment of my invention, I am aware that many minor changes therein will readily suggest themselves to others skilled in the art, without departing from the spirit and scope of the invention. Having thus described the invention: what I claim as new and desire to protect by Letters Patent is:

I claim:

An oar-actuating device comprising a vertical frame secured to and extending downwardly from the top edge of the side wall of a boat on the outboard side thereof, said frame consisting of two spaced apart parallel vertical members interconnected at their bottom ends by a horizontal rail, a yoke slidably mounted on said rail, a handle pivotally mounted on the top of said frame, a link pivotally connected at one of its ends to the lower end of said handle, a rocker arm pivotally carried by said frame and pivotally attached at its upper end to the opposite end of said link and at its opposite end to said yoke, an abutment slidably mounted upon said yoke, control means connected to said abutment and terminating on the interior of the boat for moving said abutment lengthwise of said yoke, a paddle pivotally depending from said yoke, a vertical extension formed on said paddle above the pivot point thereof and adapted to bear against one side or the other of said abutment to stabilize said paddle against swinging movement in one selected direction or the other.

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