

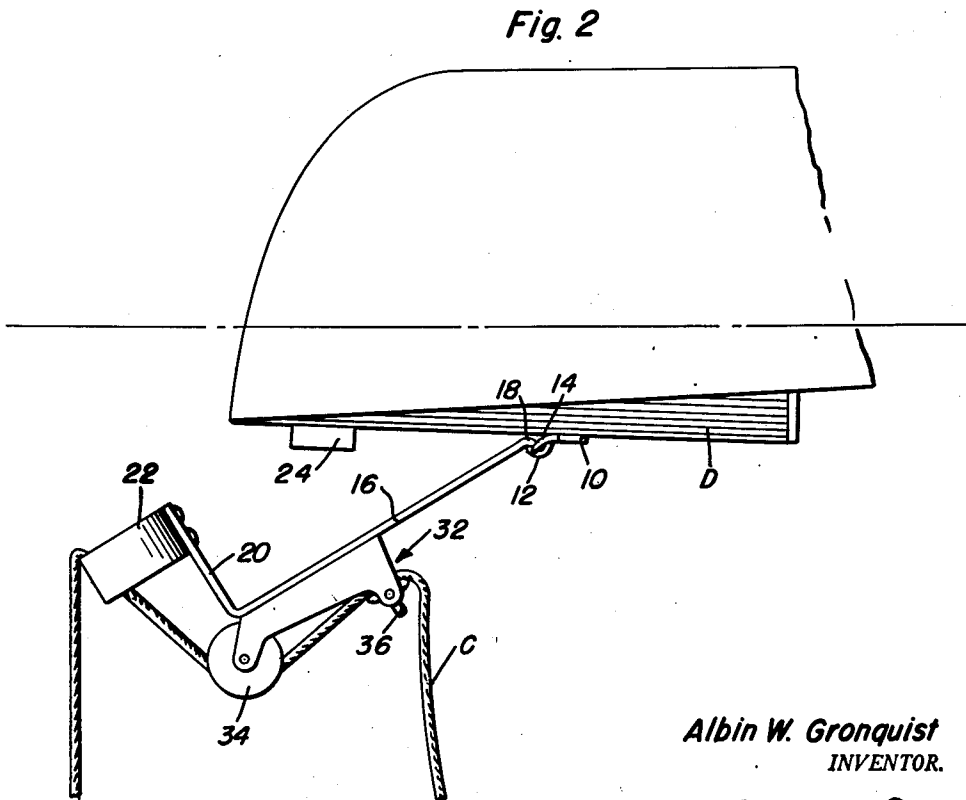
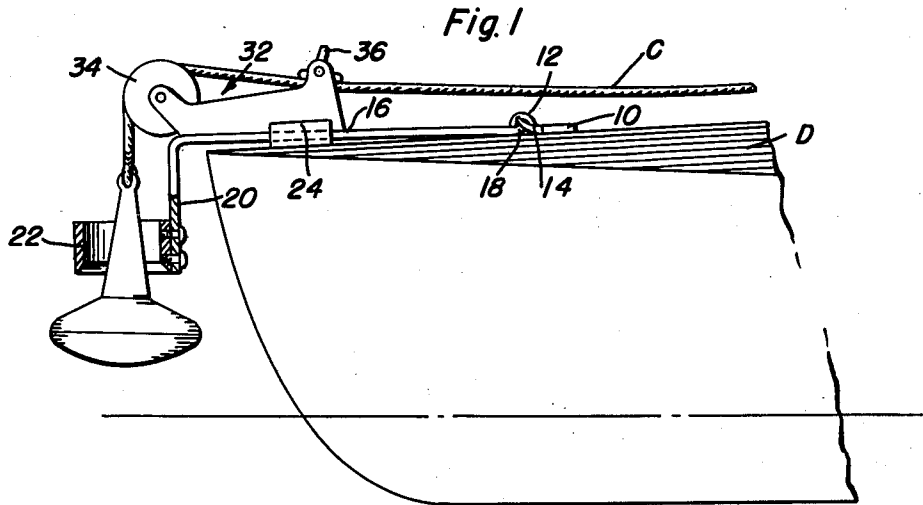
March 24, 1953

A. W. GRONQUIST
ANCHOR TRIPPER

2,632,418

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2 SHEETS—SHEET 1



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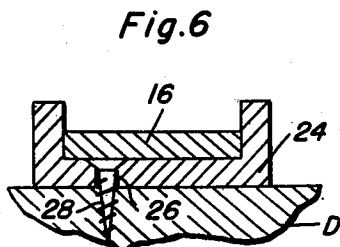
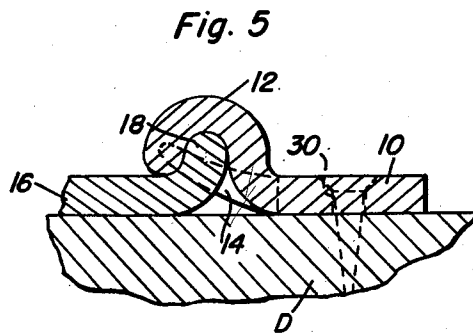
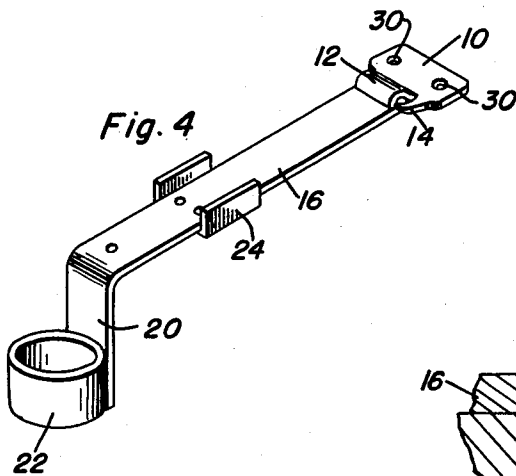
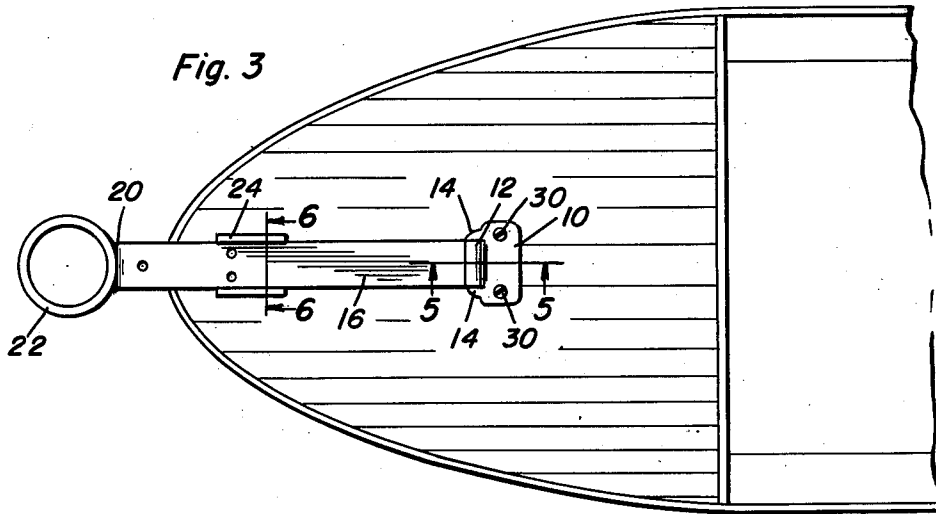
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2 SHEETS—SHEET 2



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UNITED STATES PATENT OFFICE

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ANCHOR TRIPPER

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5 Claims. (Cl. 114—210)

1

This invention relates to new and useful improvements in anchor devices for boats and the primary object of the present invention is to provide a rope lock safety device that will be readily disengaged from a boat in the event the boat capsizes to prevent the boat anchor from dragging the boat under water.

Another important object of the present invention is to provide a rope lock safety device that is quickly and readily applied to or removed from a boat in a convenient manner and which coacts with a rope lock in the guiding of an anchor rope and the retention of an anchor rope relatively close to a boat during normal use of the boat.

A further object of the present invention is to provide a rope lock safety device embodying a pair of interconnected hooks that will become disengaged to release a rope lock from a boat when the boat turns over.

A still further aim of the present invention is to provide a rope lock safety device that is simple and practical in construction, strong and reliable in use, efficient and durable in operation, inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a fragmentary side elevational view of a boat showing the present invention mounted thereon and with the auxiliary guide shown in section;

Figure 2 is a view similar to Figure 1 but showing the boat capsized;

Figure 3 is a top plan view of Figure 1 and showing the rope guiding and locking unit removed;

Figure 4 is a perspective view of the present invention;

Figure 5 is an enlarged vertical sectional view taken substantially on the plane of section line 5—5 of Figure 3; and

Figure 6 is an enlarged vertical sectional view taken substantially on the plane of section line 6—6 of Figure 3.

Referring now to the drawings in detail, wherein, for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents an anchor plate having a downwardly facing terminal hook

2

12 and a pair of spaced parallel flanges or arms 14 that extend along the sides of the hook 12 for a purpose which will later be more fully described.

An elongated support member 16 is provided at its rear end with an upwardly curved hook 18 that is engaged under the hook 12 between the flanges 14. The forward end of the member 16 is bent downwardly to provide a lateral projection 20 on which a suitable guide 22 is mounted.

A channel-shaped guide 24 receives the member 18 and the guide 24 is disposed adjacent the projection 20 and includes apertures 26 that receive fasteners 28 whereby the guide is mounted on a boat deck D. The anchor plate 10 is also provided with apertures 30 that will receive fasteners similar to fasteners 28 to attach the anchor plate to the deck D rearwardly of the channeled guide 24.

A combined rope guide and locking unit 32 is detachably secured to the forward portion of the member 16 and includes a pulley 34 that overlies the guide 22 and a well-known locking element 36 that will lock an anchor rope or cable C against sliding movement.

In practical use of the present invention, the device is mounted on the deck as shown in Figure 1 with the rope C extending through the guide 22, over the pulley 34 and rearwardly under the element 36. The end of rope C remote from the anchor may be suitably secured to the boat on which the device is mounted.

The member 16 rests upon the deck D with the hook 18 engaged with the hook 12, as shown best in Figure 5, and the member 16 is also received in the channel 24, as shown best in Figure 6. The channel 24 and the flanges 14 coact to prevent lateral movement of the member 16 relative to the deck D.

Should the boat capsize, as shown in Figure 2, the member 16 and unit 32 will swing downwardly so that the hook 18 will clear the hook 12 to disengage the support 16 with the boat and the anchor will drop to prevent the anchor from dragging the boat under water and as the end of the rope remote from the anchor may be suitably attached to the boat, the boat will be retained relative to the anchor and will not be cast adrift.

Obviously, the guide 22 need not be circular as shown and it may assume an oblong shape or U-shaped without departing from the invention.

Having described the invention, what is claimed as new is:

1. A rope lock safety device for boat anchors, said device consisting of an anchor plate secured

3

to an upper generally horizontal surface of a boat having a terminal hook facing said surface, an elongated support member having a terminal hook facing said first mentioned hook and adapted for free engagement under the hook of said anchor plate, a combined rope guide and locking unit mounted on said member, and a guide member secured to said surface, spaced laterally from the first mentioned hook and freely receiving said support member, said support member adapted to rest upon said upper surface and the hook of said support member being freely disengageable from the hook of said anchor plate for removal of the support member from the anchor plate as the boat on which the device is mounted is inverted.

2. A rope lock safety device for boat anchors, said device consisting of an anchor plate secured to an upper generally horizontal surface of a boat having a terminal hook facing said surface, an elongated support member having a terminal hook facing said first mentioned hook and adapted for free engagement under the hook of said anchor plate, a combined rope guide and locking unit mounted on said member, and a guide member secured to said surface, spaced laterally from the first mentioned hook and freely receiving said support member, said support member adapted to rest upon said upper surface and the hook of said support member being freely disengageable from the hook of said anchor plate for removal of the support member from the anchor plate as the boat on which the device is mounted is inverted, said anchor plate including a pair of side flanges extending alongside of the hook of said anchor plate to retain the hook of said support member engaged with the hook of said anchor plate and against lateral sliding movement relative to said anchor plate.

3. The combination of claim 1 wherein said guide member includes a channel spaced from said anchor plate and preventing lateral movement of said support member when the device is mounted on said surface.

4. A rope lock safety device for boat anchors, said device consisting of an anchor plate secured to an upper generally horizontal surface of a boat and having a terminal hook facing said surface, an elongated support member having a terminal hook facing said first mentioned hook and adapted for free engagement under the hook of said anchor plate, a combined rope guide and locking unit mounted on said member, and a guide member secured to said surface, spaced laterally from the first mentioned hook and freely receiving said support member, said support member adapted to

4

rest upon said upper surface and the hook of said support member being freely disengageable from the hook of said anchor plate for removal of the support member from the anchor plate as the boat on which the device is mounted is inverted, said guide and locking unit including a pulley, said support member including a laterally projecting end portion and a guide ring on said laterally projecting end portion and underlying the pulley.

5. A rope lock safety device for boat anchors, said device consisting of an anchor plate secured to an upper generally horizontal surface of a boat and having a hook facing said surface, an elongated support member adapted to rest upon said upper surface and having a lateral projection at one end and an upwardly extending hook at its other end facing the first mentioned hook and adapted for free engagement under the hook of said anchor plate, a pair of spaced flanges on said anchor plate extending alongside the hook of said anchor plate to restrict lateral movement of said support member relative to said anchor plate, a combined rope guide and locking unit mounted on said support member adjacent said lateral projection and including a pulley, a guide on said lateral projection underlying the pulley, and a channel secured to said surface, spaced laterally from the first mentioned hook and freely receiving the support member and restricting lateral movement of said support member relative to said surface on which the device is mounted, said support member adapted to swing downwardly to freely disengage the hooks and permit removal of the support member and unit when the boat on which the device is mounted becomes inverted.

ALBIN W. GRONQUIST.

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