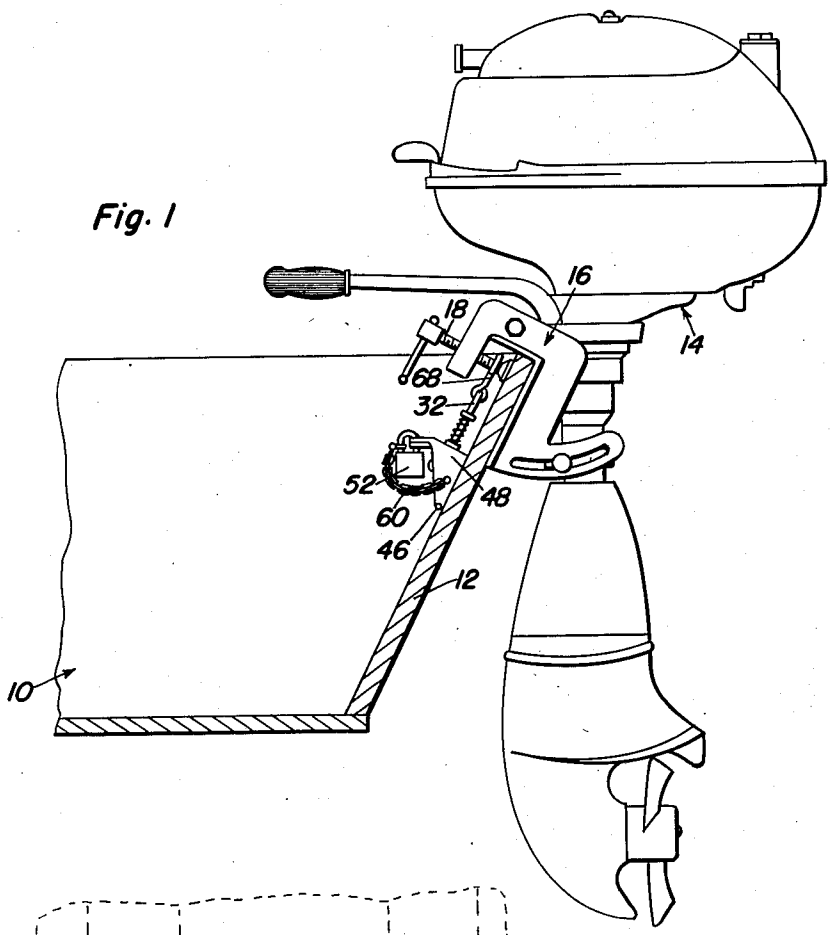
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LOCK FOR OUTBOARD MOTORS

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Fig. 1



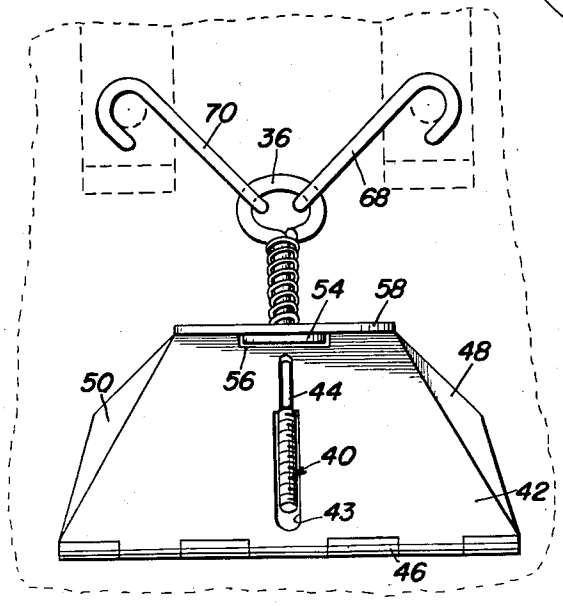


Fig. 2

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Fig. 3

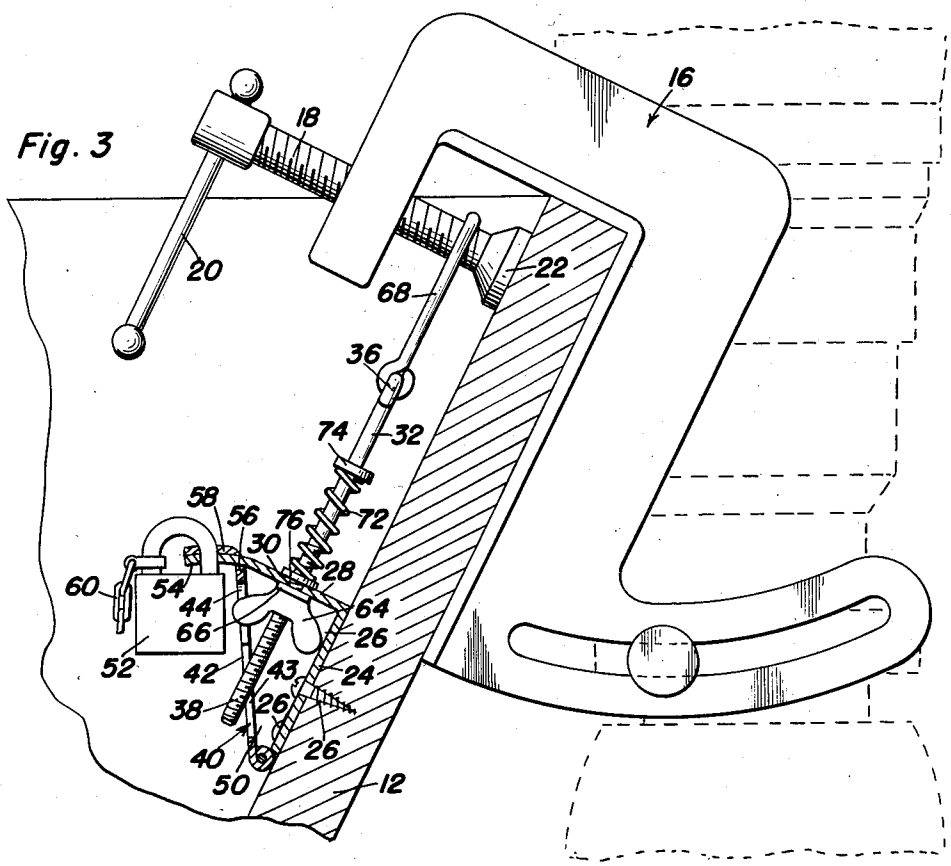
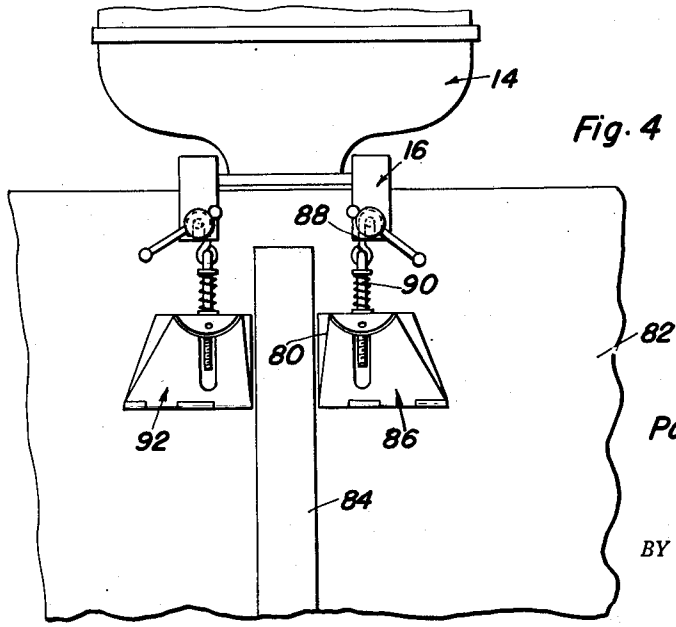


Fig. 4



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Patented Oct. 28, 1952 2,615,323

UNITED STATES PATENT OFFICE

2,615,323

LOCK FOR OUTBOARD MOTORS

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Application July 21, 1950, Serial No. 175,147

6 Claims. (Cl. 70—232)

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This invention relates to improvements in locking devices to serve as an anti-theft medium for an outboard motor.

An object of this invention is to provide a device which is adapted to attach to a part of a conventional boat, for example the transom thereof, which consists of a mounting plate having a wall extending therefrom and a cover plate which is hinged to the mounting plate, there being special provision between the wall and the cover plate to accommodate a lock so that the cover may be held substantially fixed with respect to the mounting plate and the wall, whereby when a locking rod or bolt is passed through an opening in the wall and has a wing nut thereon, the wing nut may be held in a slot in the cover and the bolt arranged for sliding movement through the opening in the wall. By this expedient, a hook or a number of hooks attached to the rod or bolt are capable of being attached to a part of the motor clamp so that it is impossible to remove the motor clamp from the boat unless the anti-theft device is broken or opened.

Ancillary objects and features of importance will become apparent in following the description of the illustrated form of the invention.

In the drawings:

Figure 1 is an elevational view of a typical outboard motor with a conventional clamp holding it in place on a transom of a boat, the boat being fragmentarily shown in section;

Figure 2 is a perspective view of the device showing it attached to a portion of a boat and a portion of a clamp, the boat and clamp portions being illustrated in phantom;

Figure 3 is an enlarged sectional view of the device showing its attachment to a clamp and a part of a boat; and

Figure 4 is an elevational view of a slightly modified form of the invention, the modification being that the device is slightly smaller in size and slightly different in shape and has only one locking hook whereas the other form of the invention is provided with more than one locking hook.

Reference is first made to the embodiment of the invention shown in Figures 1–3. Here a boat 10 fragmentarily shown is provided with the usual parts, the transom 12 being most pertinent, although the device may be attached to any part of the boat. The most practical use of the invention is on the transom inasmuch as the outboard motor 14 is generally held by means of a conventional clamp 16 to the transom of a boat.

Substantially all conventional outboard motor clamps are provided with at least one and usually two clamp screws 18 which have a winding member 20 at one end and which are adapted to

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press against the transom 12 of a boat at the other end, usually through the medium of a pad 22 of one type or another. The locking or anti-theft device is adapted to fasten to the clamping screw or screws 18 in order to prevent their separation from the transom 12 of the boat 10.

As disclosed in Figure 3 there is a mounting plate 24 having a number of holes therein through which the screws 26 pass so that they may be anchored in the wood of the transom 12. A wall 28, preferably integral with one edge of the mounting plate 24, extends at right angles from the mounting plate 24. This wall has an opening 30 therein through which the rod or bolt 32 passes. This rod is capable of sliding movement through the opening 30 and has an eye 36 at one end thereof. The other end of the rod or bolt 32 is threaded as at 38 and is adapted to pass through a part of the slot 40, which is formed in the cover plate 42. The slot 40 is formed of two parts 43 and 44, the part 43 being materially wider than the part 44 (Figure 2).

The cover plate 42 is hinged by means of the hinge 46 at its lower edge to the lower edge of the mounting plate 24, whereby the cover plate is capable of hinged or pivoted movement about the hinge pin as an axis. Sides 48 and 50 extend from the edges of the cover plate 42, forming a part thereof and close the lateral ends of the device.

Means is arranged at the upper edge of the cover plate 42 and the outer edge of the wall 28 to accommodate the lock 52. This means consists of a tongue 54 which passes through an opening 56 in the cover plate 42. A laterally extending flange 58 is provided at the top edge of the cover plate 42. Accordingly, when the cover plate 42 is hingedly moved the tongue 54 passes through the opening 56 so that the lock 52 may pass through aligned openings in the flange 58 and the tongue 54, thereby preventing any substantial movement of the cover plate with respect to the wall 28 or the mounting plate 24. In order to prevent separation of the lock 54 from the device, a chain 60 or other suitable flexible element is attached to the lock and a wall of the cover plate, for example, the wall 48.

The bolt 32 has a locking element, for example, the wing nut 64 on the threads 38 and is adapted to bear against the inside surface of the wall 28 or against a washer 66 when a washer is employed. Therefore, when the nut 64 is rotated in one direction the rod 32 is pulled inwardly through the opening 30. A part of the wing nut is adapted to be disposed in the reduced part 44 of the slot 40 when the cover 42 is hinged to the closed position to accommodate the lock

52. Through this expedient the nut 64 cannot be rotated and, therefore, the rod 32 cannot be moved.

A plurality of hooks 68 and 70 are secured by means of eyes to the eye 36 of the bolt or rod 32 and are adapted to lock on the clamping screws 18. Through this action the outboard motor clamp 16 cannot be separated from the transom 12 of the boat unles the lock 52 is removed and the device disassembled.

Resilient means opposing the sliding movement of the rod or bolt 32 in one direction is provided. This means consists of a spring 72 which reacts upon a collar 74 which is fixed to the rod 32. The spring also reacts upon a washer 76 which is simply disposed on the outer surface of the wall 28. Therefore, when the nut 64 is tightened the rod 32 is pulled downwardly to firmly clamp the hooks 68 and 70 on the clamp screws 16 against the opposing force of the spring 72.

Reference is now made to Figure 4 wherein the second embodiment of the invention is disclosed. The internal structure, make-up and operation of the embodiment of Figure 4 is identical to that previously described. The outside wall 80 which would normally correspond to the wall or side 50 is of slightly different shape. The device is arranged in this fashion so that it may be more properly and easily used in connection with the transom 82 of a boat which has a brace 84 rising at the center thereof. This is simply another type of conventional boat and the locking device 86 is adapted specifically for this type of transom. In lieu of the pair of hooks 68 and 70, only one hook 88 is used at the end of the bolt 90. This is the case inasmuch as it is contemplated to use two identical locking devices 86 and 92 in instances wherein there is a divided transom. Therefore, only one hook 88 is necessary.

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

1. For use with an outboard motor clamp, an anti-theft device comprising a mounting plate adapted to be fixed to a part of a boat, a wall having an opening therein and extending from said mounting plate, a cover plate hinged to said mounting plate and having a slot, means connected with said wall and said cover plate to accommodate a lock for holding said cover plate substantially fixed with respect to said cover plate, a rod slidably disposed in said opening and having a locking element disposed thereon and partialy disposed in said slot, and means secured to said rod for fastening said rod to a part of the outboard motor clamp.

2. For use with an outboard motor clamp, an anti-theft device comprising a mounting plate adapted to be fixed to a part of a boat, a wall having an opening therein and extending from said mounting plate, a cover plate hinged to said mounting plate and having a slot, means connected with said wall and said cover plate to accommodate a lock for holding said cover plate substantially fixed with respect to said cover plate, a bolt passed through said opening and having a nut threaded thereon and bearing against one surface of said wall so that when said nut is rotated said bolt is pulled through said opening, at least one hook secured to said rod to clamp on a part of the motor clamp.

3. For use with an outboard motor clamp, an anti-theft device comprising a mounting plate adapted to be fixed to a part of a boat, a wall having an opening therein and extending from said mounting plate, a cover plate hinged to said mounting plate and having a slot, means connected with said wall and said cover plate to accommodate a lock for holding said cover plate substantially fixed with respect to said cover plate, a bolt passed through said opening and having a nut threaded thereon and bearing against one surface of said wall so that when said nut is rotated said bolt is pulled through said opening, at least one hook secured to said rod to clamp on a part of the motor clamp, and a part of said nut being disposed in said slot when said cover plate is fixed with respect to said cover plate to prevent rotation of said nut.

4. For use with an outboard motor clamp, an anti-theft device comprising a mounting plate adapted to be fixed to a part of a boat, a wall having an opening therein and extending from said mounting plate, a cover plate hinged to said mounting plate and having a slot, means connected with said wall and said cover plate to accommodate a lock for holding said cover plate substantially fixed with respect to said cover plate, a bolt passed through said opening and having a nut threaded thereon and bearing against one surface of said wall so that when said nut is rotated said bolt is pulled through said opening, at least one hook secured to said rod to clamp on a part of the motor clamp, and a part of said nut being disposed in said slot when said cover plate is fixed with respect to said cover plate to prevent rotation of said nut, and a spring reacting on said rod and said wall opposing the operation of said rod in one direction.

5. A locking device for an outboard motor clamp for mounting on a boat and having a clamp screw, said locking device comprising an apertured case mounted on the boat, a bolt entering the case through the opening therein, a nut anchoring said bolt in the case, anchoring means connecting said bolt to the clamping screw, and means for preventing rotation of said nut.

6. The combination of claim 5, and said case including a cover constituting a wall, said cover having an opening therein in which said nut is disposed to prevent rotation of said nut.

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