March 15, 1949. J. S. WOODLAND 2,464,661

ANCHOR

Filed Aug. 10, 1945

Fig. 1

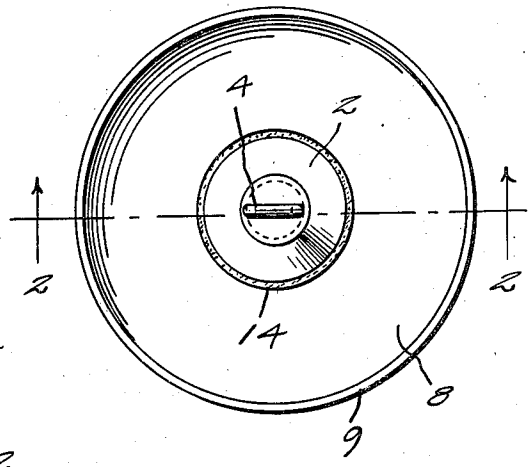


Fig. 2

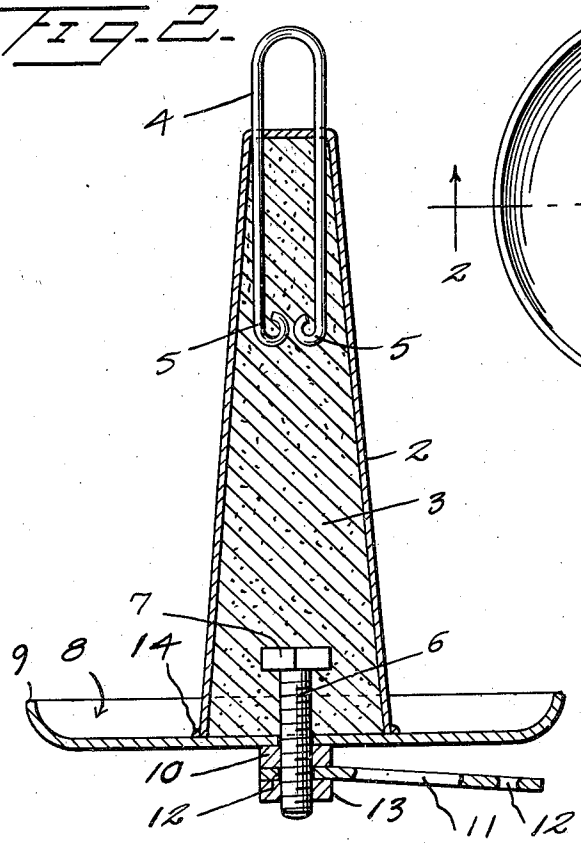
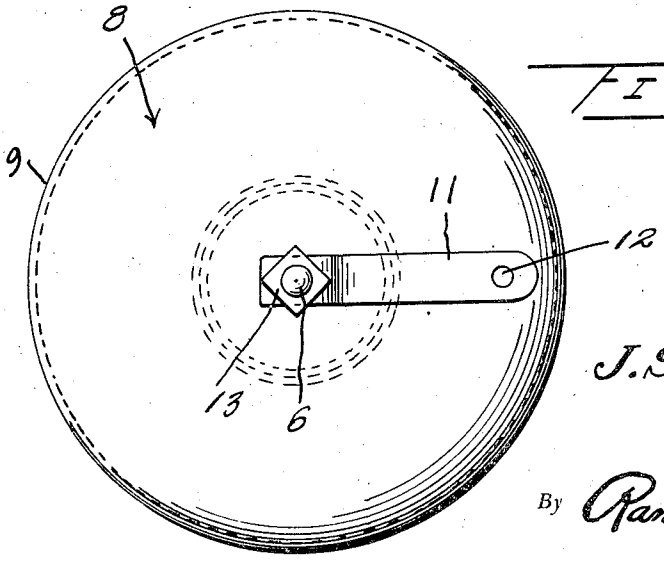


Fig. 3



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2,464,661

ANCHOR

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4 Claims. (Cl. 114—206)

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This present invention relates to boat anchors and its primary object is the provision of an anchor structure that will become embedded in the water bottom when the same is laid on the side by a pull of the line whereby it is secured to a vessel and that may be lifted from the bottom by a pull on a second line secured to another part of the anchor.

It is another object of the invention to provide an anchor of simple, sturdy and inexpensive construction.

Other and more specific objects will be apparent from the following description taken in connection with the accompanying drawing in which:

Figure 1 is a top plan view of the preferred embodiment of my invention;

Figure 2 is a diametral section on line 2—2 of Figure 1;

Figure 3 is a bottom plan view.

In the drawing in which like characters of reference designate like or similar parts, numeral 2 denotes a shell closed at the upper end, preferably of frusto-conical shape, and made of any suitable material such as sheet metal. The gauge of the material depends on the size of the vessel with which the anchor is to be used.

Larger boats should have an anchor the shell of which is made from sheet material of a heavier gauge than that used for anchors for smaller boats. The shell is filled with a moistened mixture 3 of sand and Portland cement. Before this mixture sets to become concrete the legs of an attaching means 4 in the form of a clevis are connected thereto; the legs of the clevis have their free ends 5 bent upwardly and inwardly to firmly and inextricably embed the clevis in the concrete and extend through openings in the top of the shell.

In the bottom portion of the concrete is embedded a screw bolt 6 having a head 7 and a stem extending downwardly through a central opening in a dished tray 8 with an upwardly bent over marginal portion 9. This tray is welded at 14 to the wider end of the sleeve and further secured to the same by a nut 10 threaded upon the end of the bolt protruding below the dish and embedded with its head in the concrete.

A connecting member 11 has an aperture 12 at either end. The end of the bolt projecting below the nut extends through one of these apertures and a second securing nut 13. The aperture in the outer end of the connecting member may receive a cable or tail rope whereby the anchor can be pulled out of the bottom of the body of water more easily. If the connecting member is not needed, it may be removed.

After the anchor has been lowered to the bottom, a sidewise pull on the line attached to the clevis 4 will tilt the anchor so that a further pull causes the sand tray to dig itself into the ground.

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The anchor may be disengaged from the ground and lifted by a pull on a line attached to the outer opening 12 of the tail fastening means 11.

While I have disclosed the details of the preferred embodiment of my invention in the foregoing description and accompanying drawing, I desire it to be understood that this disclosure is merely illustrative and is not a limitation of the invention. Such changes may be made as are within the scope of the appended claims without departure from the spirit of the invention.

What I claim and desire to secure by Letters Patent is:

1. An anchor comprising a dished sand tray, a shell secured to the upper side of the tray and filled with concrete, a fastening means embedded in the concrete, and a second fastening means secured to the bottom side of the tray.

2. An anchor comprising a dished sand tray, a frusto-conical shell secured to the upper side of the tray and filled with concrete, a fastening means embedded in the concrete, and a tail fastening means secured to the bottom side of the tray.

3. An anchor comprising a dished sand tray, a shell secured to the upper side of the tray and filled with concrete, a fastening means embedded in the concrete, a fastener embedded in the concrete and extending through the tray and secured thereto, and tail fastening means detachably secured to the fastener.

4. An anchor comprising a dished sand tray, a shell secured to the upper side of the tray and filled with concrete, a fastening means embedded in the concrete, a bolt embedded with its head in the concrete and extending through the tray and having a nut engaging the bolt beyond the tray, and a tail fastening means detachably secured to the bolt.

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