June 8, 1965 F. A. CARBONE 3,187,707

MOORING WHIP ANCHORING MEANS

Filed May 27, 1963

FIG. 1

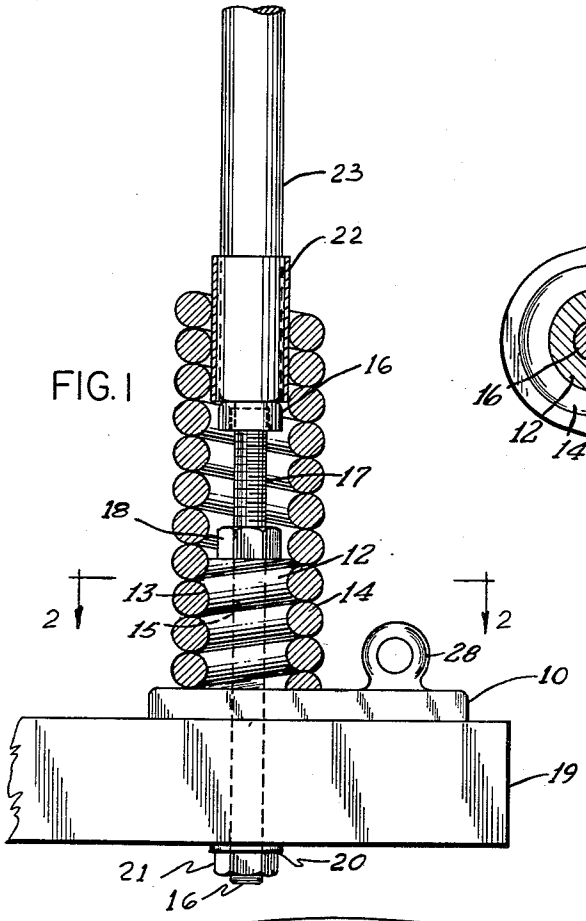
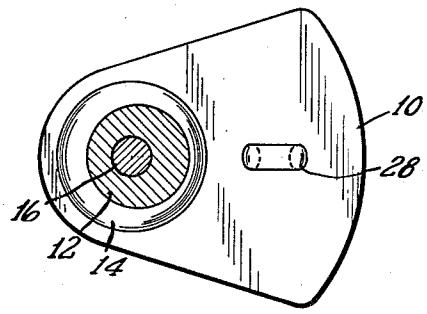


FIG. 2



SECTION 2-2

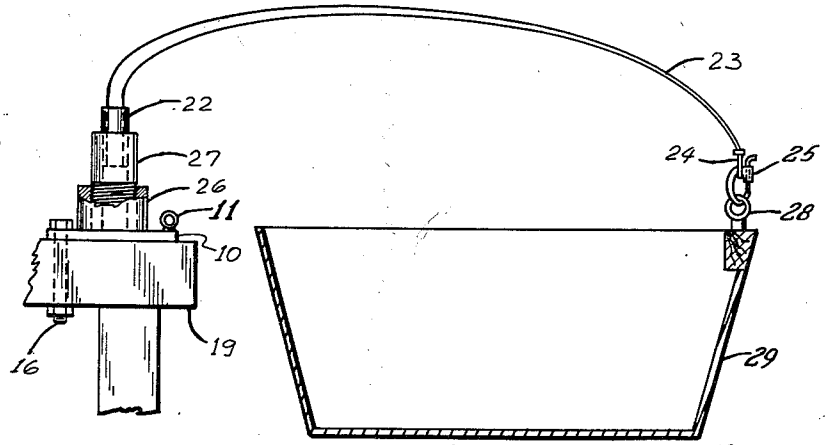


FIG. 3

INVENTOR.

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MOORING WHIP ANCHORING MEANS

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1 Claim. (Cl. 114—230)

My invention relates to novel devices for mounting mooring whips adapted for mooring boats to docks or other fixed objects.

It is an important object of my invention to provide novel devices for holding mooring whips or the like on docks and which include a securable mounting base and upwardly extending members thereon for holding the lower or butt portions of flexible mooring whips which have their free ends releasably connected to boats, and which includes adapter means for receiving and holding whips of various sizes; and which include means for quickly and easily securing the devices to stationary docks.

A further object of my invention is the provision of devices for mounting mooring whips which have flexible whip-holding adapters for removably holding whips of varying sizes and thicknesses, and which have novel means for connecting said adapters and holders thereof to a base or mounting plate.

Other and further important objects of my invention will be apparent from the following specification and claim.

On the drawings:

FIG. 1 is an elevational view of one form of my mooring device, with certain parts in cross section.

FIG. 2 is a cross section taken on a horizontal plane indicated by line 2—2 of FIG. 1 and looking downwardly.

FIG. 3 is a reduced elevation, with parts in section illustrating the normal position of one of said devices and mooring whips and illustrating a modified form of whip-anchoring means.

Referring to the drawings, numeral 10 designates an apertured metal mounting plate or base which preferably has formed integral therewith an upwardly extending loop or eye 11.

In the preferred form of my invention, a metal upwardly extending externally grooved centrally passaged lug or member 12 having exterior grooves or threads 13 is formed, said grooves being spiral, as indicated. A spiral spring or passaged holding member 14 is mounted upon said lug 12, preferably by twisting or rotating the same into engagement with the threads 13. Lug 12 has a longitudinal passage 15 formed therein, as illustrated.

An elongated bolt 16, which has an upper integral head, has a plurality of threads 17 formed thereon on which there is threaded an adjustable upper nut 18, which when tightened presses and engages the upper end portion of the lug 12.

Numeral 19 designates a projecting portion of a stationary dock which has a passage formed therein through which the lower end portion of the bolt 16 extends. A nut 21 is threaded on the lower end of the bolt 16 and bears against an interposed metal washer 20 to securely hold the base 10, and lug 12 firmly upon the dock 19.

A cylindrical metal sleeve or fitting 22 is pressed and maintained in the upper portion of the spring or holding member 14, said sleeve or adaptor 22 being of varied thickness and size to provide a vertical passage and seat for the butt end of a mooring whip 23 which is maintained in said sleeve or fitting 22 in a substantially upwardly extending position.

It will be understood that the mooring whips, such as the whip 23, are relatively long, flexible and made of flexible material such as fiber glass or plastic and are gradually reduced and tapered in thickness toward the outer free ends, as illustrated in FIG. 3. The outer ends of such mooring whips 23 usually have a suitable hook or connecting element 24 secured thereon and which acts as a connector for a releasable snap or fastener 25 which is releasably connected to a suitable fitting or ring 28 which is connected to one side portion of a boat.

In FIG. 3 I have illustrated a modified embodiment of my invention in which the metal base 10 has secured to its middle portion, preferably by welding, an internally threaded fitting or coupling 26 in which a metal pipe or tube 27 has one end threaded. A metal cylindrical sleeve or adapter 22 is pressed into the upper portion of said pipe 27. Said sleeve 22 is adapted to receive and hold the butt portion of a mooring whip 23, whose outer end has secured thereon a suitable hook or eye 24. A suitable hook or releasable metal snap 25 is anchored to said whip by hook 24 and is adapted to be releasably connected to a ring 28 anchored to one side portion of a boat 29.

The spring 14, as illustrated in FIG. 1, is relatively stiff and is adapted to flex or yield only to a small degree, for example, not over five degrees from a vertical axis, this so that the butt end portion of mooring whips will be held in either vertical or substantially vertical position.

It will be understood that in most instances such anchored mooring whips are utilized in spaced apart position, and usually connected to the stern portion and to the front portion of a boat so as to hold the boat away from and out of contact with outer portion of a dock or fixed mooring means and to effectively resist the pressure of wind and impact of waves against a boat to thereby avoid damage to the boat which otherwise would occur.

Inasmuch as many changes could be made in the foregoing construction, and as many variations could be proposed in the specification and claim without departing from the spirit and scope thereof, it is intended that all matter contained herein shall be considered as illustrative and not in a limiting sense.

I claim:

In a device for mounting mooring whips or the like;
an apertured metal base;
an externally grooved passaged lug secured on said base;
a coil metal spring mounted on said lug and engaging the grooves thereof;
a bolt extending through said lug and through said base and adapted to be secured to a stationary dock;
a metal sleeve mounted in the upper end of said spring, said sleeve being adapted to receive and hold the butt of an anchoring whip or the like, said base having an upwardly extending projecting integral eye thereon, the upper end portion of said bolt being threaded;
and a nut threaded on said bolt and engaging the upper end portion of said lug, said nut providing for adjustably positioning said bolt relative to said spring to selectively vary the depth of the whip-receiving space within the upper part of said spring.

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FERGUS S. MIDDLETON, *Primary Examiner.*