Nov. 17, 1964 J. FABER, JR 3,157,150

MOORING APPARATUS

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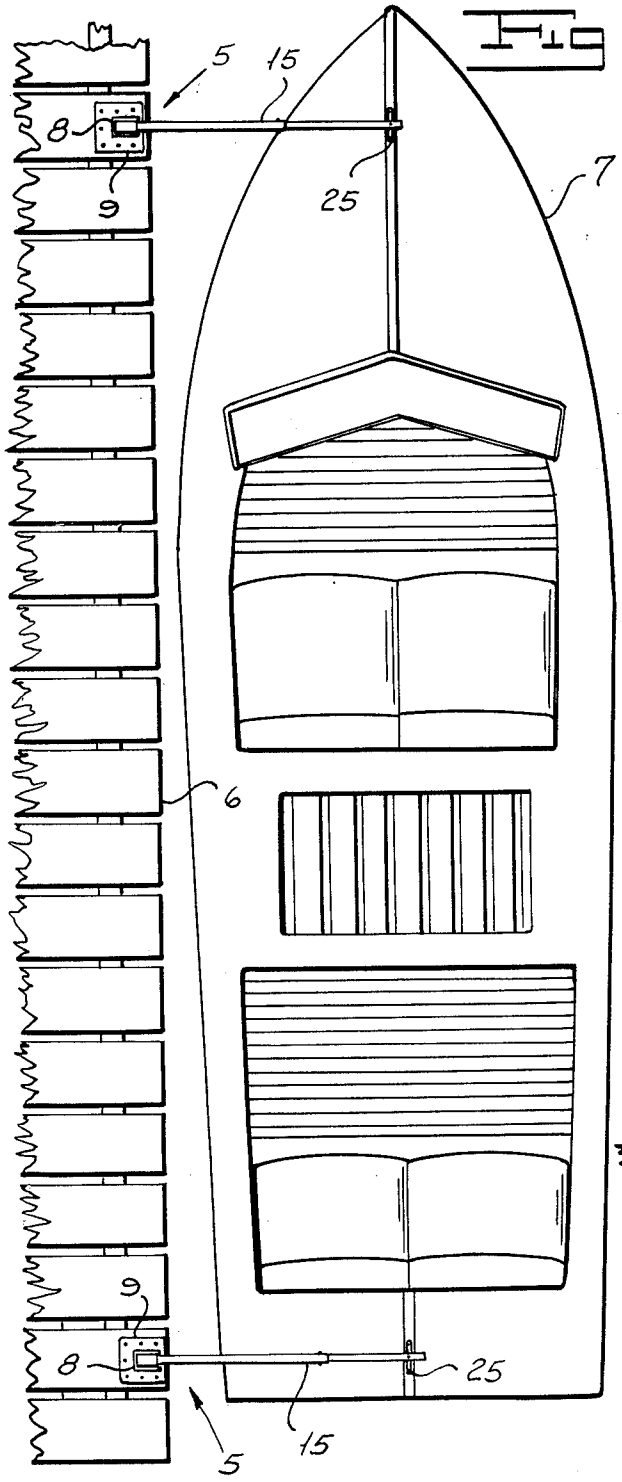


FIG 1

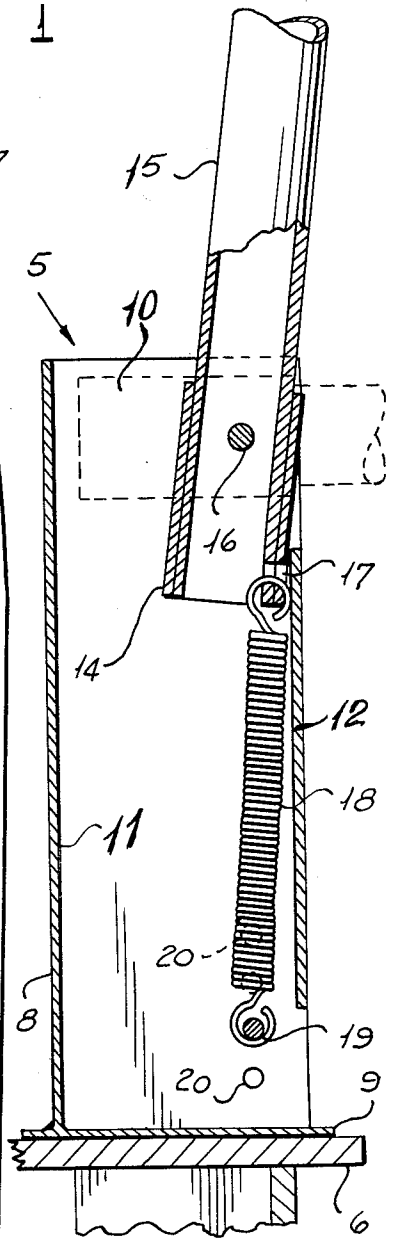


FIG 4

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Fig 3

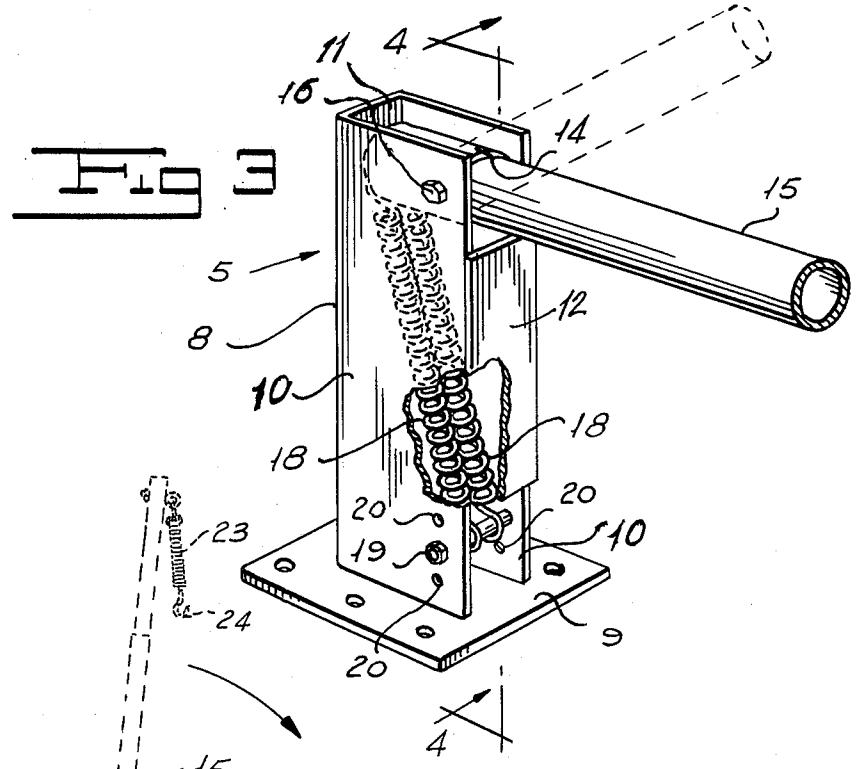
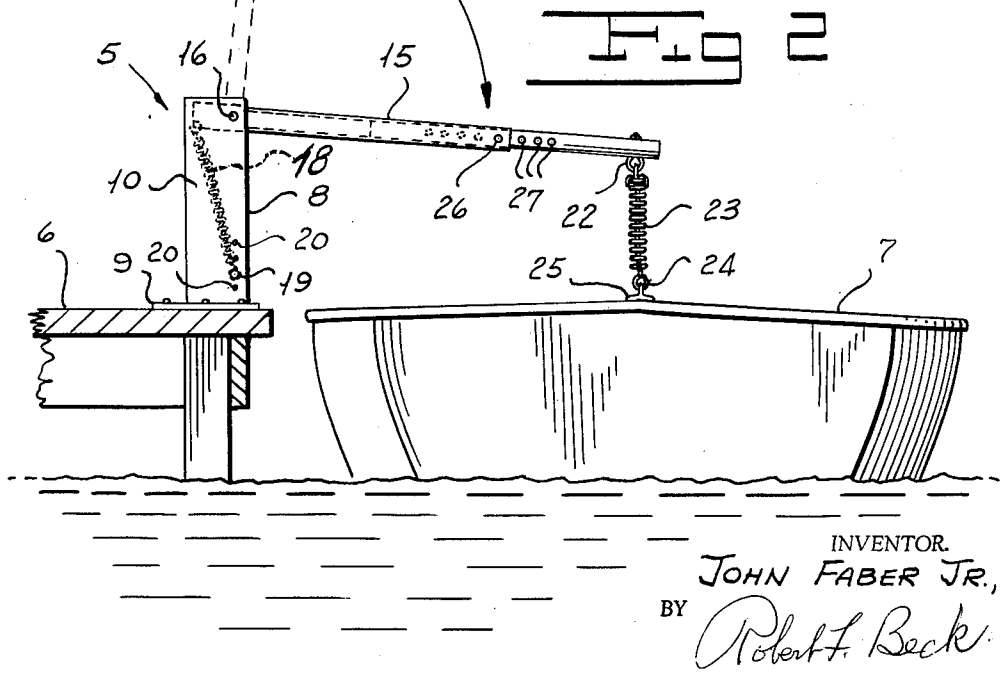


Fig 2



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3,157,150

MOORING APPARATUS

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2 Claims. (Cl. 114—230)

My invention relates to mooring apparatus for utilization in connection with the mooring of small craft or boats, examples of the prior art being disclosed in U.S. Patents Nos. 2,440,972; 2,569,783; 2,938,492; 2,996,033; and 3,019,759.

One of the objects of my invention is to provide mooring apparatus for mounting on a dock or the like and which is readily attachable to the fore and aft of a small craft or boat to preclude damage of the latter by engagement with the dock occasioned by the movement of the water due to tides, storms, and undulations caused by other craft or ships.

Another object of my invention is to provide mooring apparatus of the foregoing described character having spaced mooring devices or units for mounting on a dock and which are equipped with laterally extending and vertically pivoting spacing means provided with fastening means for securing the spacing means to a craft or boat for mooring the latter spaced from the dock.

A further object of my invention is to provide mooring apparatus of the foregoing described character equipped with means for pivoting and maintaining the spacing means in an upright position when not in use to preclude obstructed approach of craft to the dock by the spacing means.

Still another object of my invention is to provide the spacing means with resilient means for connecting the spacing means to the craft in a manner to permit limited movement of the craft or boat relative to the dock without engagement therewith.

An important object of my invention is to provide mooring apparatus of the foregoing described character which is so constructed and arranged as to be easily attached to and released from the craft with a minimum of effort.

Another important object of my invention is to provide mooring apparatus of the foregoing described character capable of being adjusted in a manner whereby the craft may be moored a selected distance from the dock to preclude engagement therewith.

A further important object of my invention is to provide a mooring apparatus of the foregoing described character which is simple in construction, durable in use, efficient in operation, economical in manufacture and capable of being easily mounted on and removed from a dock.

With the above and other objects in view, as will hereinafter appear, the invention consists in the combination and arrangement of parts hereinafter set forth and illustrated in the accompanying drawings from which the several features of the invention and the advantages attained thereby will be readily understood by those skilled in the art.

Referring to the drawings wherein like reference characters designate like parts throughout the several views:

FIGURE 1 is a plan view of a portion of a dock having my invention mounted thereon and mooring a craft spaced from the dock,

FIGURE 2 is a side elevation of my invention illustrating the same mounted on a dock and connected to the craft,

FIGURE 3 is a perspective view, partly broken away, of one of the stanchions and related components, and

FIGURE 4 is a sectional view taken substantially on the line 4—4 of FIGURE 3.

In practicing my invention, as illustrated in the drawings, I provide mooring apparatus comprising a pair of mooring units or devices 5 mounted on a dock 6 or the like and spaced from each other approximately a distance corresponding to the length of a craft or boat 7 to be moored thereby. The devices are connected to the fore and aft, respectively, of the craft 7 to moor the latter spaced from the dock as hereinafter described.

Inasmuch as the devices are of a like construction, a detailed description of one will suffice, it being understood that the same reference characters apply to the same components of both. Each of the devices 5 comprises a stanchion constituting an elongated housing 8 of a substantially U-shape in cross-section and having a base 9 secured in fixed relation to the dock 6 by means of bolts or the like. The housing is provided with end walls 10 connected together by side walls 11 and 12, respectively, with the length of the side wall 12 terminating below and above the upper and lower ends of the adjacent end walls as shown in FIGURES 3 and 4. Extending into the upper end of the housing, between the end walls 10, is the inner end portion 14 of a spacing arm or means 15 and which is pivoted within the housing by a pivot pin 16 extending through the walls 10 and portion 14, inwardly of its outermost end, adjacent the wall 12.

The outermost end of the portion 14 is formed with an opening 17 through which extends coincident ends of a pair of coiled springs 18 to connect the latter to the arm 15, while the opposite ends of the springs 18 are connected to a cross-pin or bolt 19 extending through a pair of selected aligned openings 20 in the walls 10 of the housing. The springs 18 function to urge the arm 15 towards and maintain the same in an upright position when not in use as depicted in dotted lines in FIGURE 2. The walls 10 of the housing, adjacent the bolt 19, are provided with other aligned pairs of openings 20 which are vertically arranged for selectively receiving the bolt 19 in a raised or lowered position to vary the tension of the springs 18 to insure proper operation of the arm 15 by the springs 18.

The outer or distal end of the arm 15 has extending therethrough an eye bolt 22 to which is connected the upper end of a coil spring assembly 23 having its lower end equipped with a snap hook 24 connected with an eye bolt 25 secured to the adjacent end of the craft 7 for mooring the latter. The arm 15 may be of a sectional telescopic construction having one section slidable within the other to vary the length of the arm to obtain mooring of the boat a desired distance from the dock. The sections of the arm are secured in a lengthwise adjusted position by means of a pin 26 extending through selected openings 27 in the arm.

In use, assuming the boat has been maneuvered to a position dock side, the arms 15 are pivoted downwardly and laterally of the housings to dispose their distal ends superjacent the ends of the boat and the hooks 24 snapped into the eye bolts 25 mounted on the stern and bow of the boat, respectively. As shown in the drawings, the arms are of a definite length to prevent the boat from engaging the dock and when in their lowered or mooring position extend into the housings between their respective end walls 10 and over the upper ends of the side walls 12. Thus, any tendency towards lateral movement of the arms by the boat is precluded by engagement of the arms with the walls 10.

When the hooks 24 are released from the eye bolts 25, the springs 18 function to raise the arms to their upright positions thereby precluding obstruction by the arms to craft approaching the dock. While the arms are confined to a vertical pivoting movement, the spring assemblies 23 coact with the arms to permit limited movement of the boat in order that the latter may properly ride the water and, at the same time, be moored an appropriate distance from the dock.

Without further elaboration, the foregoing will so fully explain the invention that others may, by applying cur-

rent knowledge, readily adapt the same for use under various conditions of service. Moreover, it is not indispensable that all the features of the invention be used conjointly since they may be employed advantageously in various combinations and subcombinations.

It is obvious that the invention is not confined solely to the use herein disclosed in connection therewith as it may be utilized for any purpose to which it is adaptable. It is therefore to be understood that the invention is not limited to the specific construction as illustrated and described, as the same is only illustrative of the principles involved which are capable of extended application in various forms, and the invention comprehends all construction within the scope of the appended claims.

What I claim is:

1. In boat mooring apparatus, an elongated and vertically extending housing adapted to be fixed to a dock and having a pair of spaced side walls, a lengthwise adjustable boat spacing arm having inner and outer ends and with said inner end disposed within and permanently pivoted to said housing between said walls, said arm extending laterally and outwardly from between said walls to a preselected adjusting mooring position for mooring a boat spaced from the dock, said arm engageable by said walls to preclude lateral displacement of said arm when in said mooring position, a spring device permanently secured directly to said outer end of said arm and depending therefrom for detachable connection to a section of a boat, an elongated spring in the housing and secured at one end to said housing and connected at the other end to said inner end of said arm at a point spaced from the pivot thereof in position to move said last-mentioned end downwardly for pivoting said arm to an upright position from said mooring position upon detachment of said spring device from the section of the boat.

2. In boat mooring apparatus, a pair of spaced units

each including an elongated and vertically extending housing adapted to be fixed to a dock and having a pair of spaced side walls, a lengthwise adjustable boat spacing arm having inner and outer ends and with said inner end disposed within and permanently pivoted to said housing between said walls, said arm extending laterally and outwardly from between said walls to a preselected adjusted mooring position for mooring a boat spaced from the dock, said arm engagable by said walls to preclude lateral displacement of said arm when in said mooring position, a spring device permanently secured directly to said outer end of said arm and depending therefrom for detachable connection to a section of a boat, an elongated spring in the housing and secured at one end to said housing and connected at the other end to said inner end of said arm at a point spaced from the pivot thereof in position to move said last-mentioned end downwardly for pivoting said arm to an upright position from said mooring position upon detachment of said spring device from the section of the boat, said spring devices and said arms of said units cooperating to moor the boat in said mooring position and permit limited movement of the boat while in said mooring position.

References Cited by the Examiner

UNITED STATES PATENTS

1,644,661	10/27	Aufenast	248—292 X
2,440,972	5/48	Peltier	114—230
2,640,534	6/53	Coffing	114—230 X
2,938,492	5/60	Kulick	114—230
2,996,033	8/61	Yordi	114—230
3,095,848	7/63	Dick	114—230
3,120,831	2/64	Fulton	114—230

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