United States Patent [19]

Bell

[11] **3,868,030**

[45] **Feb. 25, 1975**

[54] **BOAT GUIDE DEVICE**

[76] Inventor: **Larry E. Bell,** 2881 33 Ave., Sacramento, Calif. 95824

[22] Filed: **Apr. 18, 1973**

[21] Appl. No.: **352,119**

[52] **U.S. Cl.**..... **214/84,** 193/35 C, 280/144, 280/414, 340/135

[51] **Int. Cl.**..... **B60p 3/10,** B62d 33/08

[58] **Field of Search**..... 280/414 R, 143, 144; 214/84; 193/35 C

[56] **References Cited**

UNITED STATES PATENTS

2,827,304	3/1958	Backus	280/143
3,021,969	2/1962	Peake et al.	214/84
3,056,517	10/1962	Trumbull	214/84
3,083,986	4/1963	Moody et al.	280/414
3,124,259	3/1964	Goettl	214/84
3,178,043	4/1965	Easterwood	214/84
3,204,790	9/1965	Collins	214/84
3,447,815	6/1969	West	280/144
3,717,268	2/1973	Snodgrass	214/84
3,788,502	1/1974	Bell	214/84

Primary Examiner—Leo Friaglia

[57] **ABSTRACT**

A boat guiding device for boat trailer, usable in opposed pairs, and comprising a mounting bar and a mounting channel for attaching each device to a respective side of the boat trailer frame. A hollow quadrant member, rigidly secured to the mounting bar and channel of the respective device in which is pivotably carried an angularly adjustable pipe member which threadably carries a horizontally pivotable pipe member, the pipe structure having a vertically adjustable rubber wheel for engaging and guiding a boat during loading or launching and the pipe member including angle clip means for rendering the two pipes stationary during use.

5 Claims, 4 Drawing Figures

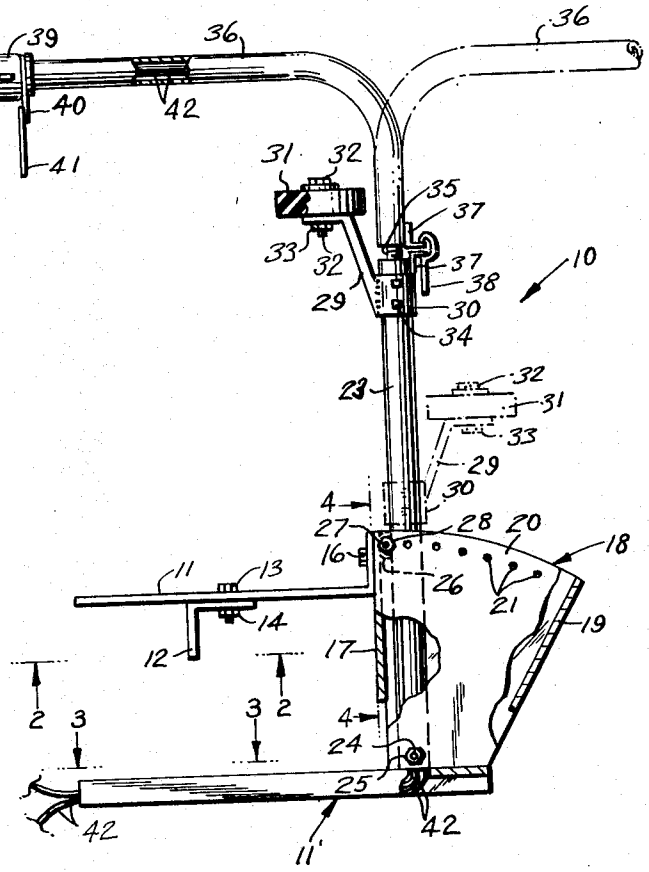


FIG. 1

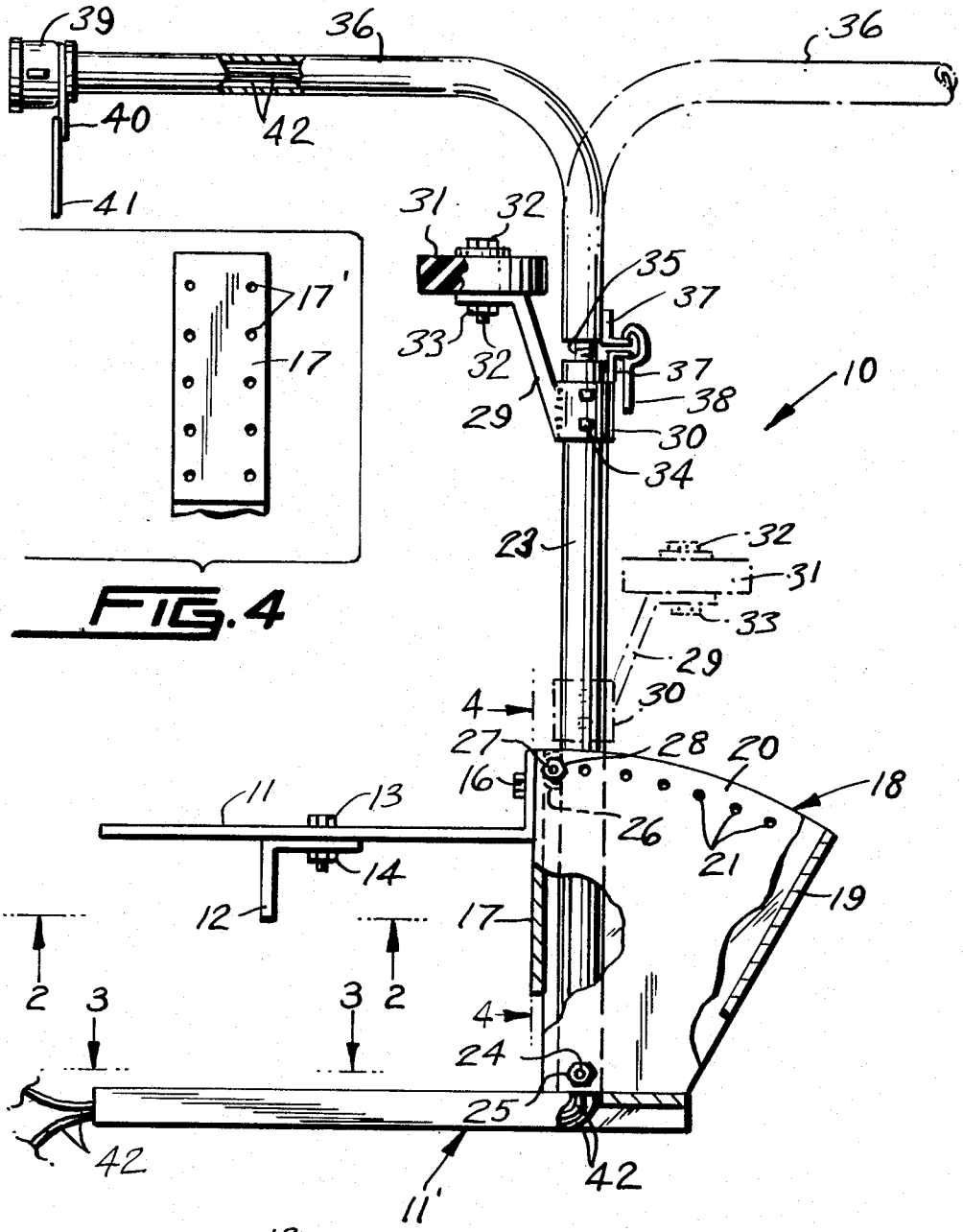


FIG. 4

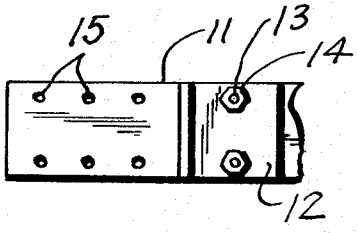


FIG. 2

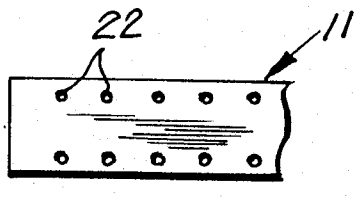


FIG. 3

BOAT GUIDE DEVICE

This invention relates to boat and trailer accessories and more particularly to a boat guide device.

It is therefore the principal object of this invention to provide a boat guide device which will be used in pairs, one each being attached to a side of the trailer, the device being able to swing away from the boat when it is launched or loaded by over-head hoist or crane means.

Another object of this invention is to provide a boat guide which will be equipped with a stop light device with bracket means for attachment of a plate, a license plate the stop light portion being pivoted away from the boat when using the launching ramp, and the pair of boat guides will serve to enable the launching and lowering of the boat to be easier.

Another object of this invention is to provide a boat guide of the type described which will keep the tail and stop light portion out of the water so as to prevent corroding and thus cause the bulbs thereof to last longer.

Still another object of this invention is to provide a boat guide of the type described which will have a mounting bar and a mounting channel which will be used in conjunction with each other to mount the quadrant portion having the angularly adjustable pipe member, the pipe member being pivotably secured to the quadrant at its lower extremity, the upper portion carrying a sleeve with wheel bracket means for supporting a rubber wheel with which the sides of the boat are protected.

Yet another object of this invention is to provide a boat guide of the type described which will have a horizontally pivotable pipe member which is threaded by nipple means into the angularly adjustable pipe member within the quadrant.

A further object of this invention is to provide a guide device of the type described which will have angle clip means, one each being secured fixedly to the pipe members so as to render the pipe members stationary.

Other objects of this invention are to provide a boat guide which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will become readily evident upon a study of the following specification together with the accompanying drawing wherein:

FIG. **1** is a side view of the present invention shown in elevation and partly broken away with a varied position of the upper components shown in phantom lines;

FIG. **2** is a view taken along the line **2—2** of FIG. **1**;

FIG. **3** is a view taken along the line **3—3** of FIG. **1**; and

FIG. **4** is a cross-sectional view taken along the line **4—4** of FIG. **1.**

According to this invention, a boat guide device **10** is shown to include a channel member **11'** which is parallel to and spaced apart from an L-shaped mounting bar member **11**, the mounting bar **11** and the channel member **11'** serving as mounting means for device **10** to a trailer. An L-shaped bracket **12** is secured by means of bolt fasteners **13** and nut fasteners **14** to bar **11**, the bolt fasteners **13** being placed into any of the openings **15** of bar **11** desired. The placement of bracket **12** enables device **10** to be mounted to trailers of various sizes. A pair of bolt fasteners **16** (one of which is shown) are used to secure bar **11** to wall **17** which is provided with a plurality of spaced apart pairs of openings **17'** through which bolt fasteners **16** may be

received, the arrangement being such that the of mounting bar **11** may be placed at any desired elevation. Wall **17** forms one end portion of quadrant **18** which has secured at its opposite side an angularly disposed wall **19,** the walls **17** and **19** being secured to the parallel side plates **20** by welding or other suitable means. Quadrant **18** also is provided with a plurality of spaced apart openings through its upper extremity **21** for a purpose which hereinafter will be described. The channel member **11'** is provided with a plurality of spaced apart pairs of openings **22** for mounting channel **11'** to a particular trailer.

A pipe member **23** angularly adjustable within quadrant **18** is pivotally secured by bolt fastener **24** and nut fastener **25** carried by the lower portion of the side plate **20** quadrant **18,** the arrangement enabling the upper portion of pipe **23** to be pivotable within quadrant **18.** A loop **26** is welded or otherwise secured to the outer periphery of pipe **23** and is apertured to receive a fastener **27,** which is also selectively engageable with openings **21** spaced along the upper edge of plate **20** thereby providing a means of locking pipe **23** in any desired position along the quadrant **18** depending within which of the openings **21** the bolt fastener **27** is received. The bolt fastener **27** threadingly receives a nut fastener **28** which thus renders pipe **23** stationary.

A wheel mounting bracket **29** is welded to the outer periphery of a slideable sleeve **30** carried upon pipe **23.** A rubber wheel **31** is secured to bracket **29** by means of a bolt fastener **32** receiving a nut fastener **33.** The sleeve **30,** carrying wheel **31,** is secured to pipe **23** by means of a pair of set screws **34** carried threadably within sleeve **30.** A threaded nipple **35** is threadably carried within pipe **23** at one end. The upper end of threaded nipple **25** rotatably carries a horizontally rotatable pipe **36.**

A pair of angle clips **37** are one each secured fixedly to the spaced apart ends of pipes **23** and **36** and a wire pin **38** is receivable within openings (not shown) through the angle clips **37,** thus rendering the pipes **23** and **36** stationary.

A stop-tail light **39** is carried on the opposite end of pipe **36** and includes a bracket **40** to which a license plate **41** may be secured. The wires **42** to light **39** extends through both pipe **36, 23** and are carried within channel member **11'.**

The wire pin **38** is removed from angle clip **37** when it is desired to rotate the horizontal pipe **36.** The pipe **36** is rotatable so as to facilitate easy launching or loading of a boat.

It shall be noted that the guide **10** is used in pairs, one each being secured by means of the mounting bars **11** and the channel members **11',** the mounting being secured to the sides of the trailer carrying the boat. The wheel **31** carried upon the sleeve **30** may be elevated to any desired height for engaging the side of the boat by loosening set screws **34** and raising or lowering sleeve **30** after which the set screws **34** are tightened against the periphery of pipe **23,** thus rendering wheel **31** stationary while not affecting the rotation thereof.

What I now claim is:

1. A boat guide device for boat trailers, comprising a pair of boat guides, one for each side of a trailer, each said boat guide including a quadrant member, a vertically extending pipe pivotally connected at its lower end to a lower portion of the quadrant, a plurality of apertures spaced along the upper edge of said quad-

rant, a loop carried by said pipe for selectively angularly securing said pipe along the upper edge by a bolt fastener means engageable with said loop and one of said apertures, a wheel bracket and sleeve carried by said pipe and having rubber wheel means for guiding and protecting the sides of the boat, an L-shaped pipe member having a horizontal pipe portion pivotally carried by said pipe and including stop-light means and a license plate supporting bracket at the free end of said pipe portion; means for mounting said boat guide to the trailer including an L-shaped bar member and a channel member, each said member secured to said quadrant in vertically spaced relation with each other, L-shaped bracket means adjustably carried by said bar member, means on said bar and channel members for adjustably sucuring said quadrant to the boat trailer, nipple means interconnecting said pipe and L-shaped pipe member together and an angle clip means with wire pin means for selectively securing said pipe and pipe member together against relative movement.

2. The combination according to claim **1,** wherein said quadrant comprises a bottom wall to which a pair of parallel elongated side walls with arcuate upper edges and a pair of opposite non-parallel end walls are secured in upstanding relation, the pipe being pivotally secured to the side walls near the bottom wall by bolt and nut fastener means extending transversely therethrough, said loop being securable by a removable bolt fastener receivable in any aligned pair of said openings, said openings being located on each of said side walls, said pipe being selectively positionable at any desired angle within said quadrant between said side walls, said quadrant being secured to said channel along said bottom wall and secured to said L-shaped bar member along an end wall.

3. The combination according to claim **2,** wherein said L-shaped bar member is secured to said end wall of said quadrant by means of bolt fasteners and the l-shaped bracket is adjustable upon said L-shaped bar member by means of bolt fasteners engageable within any of a plurality of spaced apart openings spaced along said mounting bar and said channel bar member includes spaced apart openings for selectively receiving mounting bolts at any desired position so as to adapt said device to different size trailers and wiring to said stop light on said horizontally rotatable bar, being carried through said pipes and within said channel member.

4. The combination according to claim **3,** wherein said sleeve carrying said rubber wheel which protects the sides of said boat by being in rolling engagement therewith is adjustable in elevation upon said pipe pivotably carried within said quadrant, said sleeve carrying set screws which engage the outer periphery of said pipe so as to render said wheel stationary, said wheel being carried upon a bracket extending from said sleeve by suitable bolt and nut fastener means.

5. The combination according to claim **4,** wherein said horizontally pivotable pipe member threadably carries a threaded nipple which is threadingly received within a threaded end of said pipe above said quadrant, and secured fixedly to the spaced apart ends of said pipe and L-shaped pipe member is an angle clip, said clips when aligned with each other, they receive a wire pin through an opening which renders said pipe stationary with respect to each other.

* * * * *