

Dec. 13, 1938.

W. H. WISE

2,140,099

OUTBOARD MOTOR PROPELLER GUARD

Filed April 29, 1938

Fig. 1.

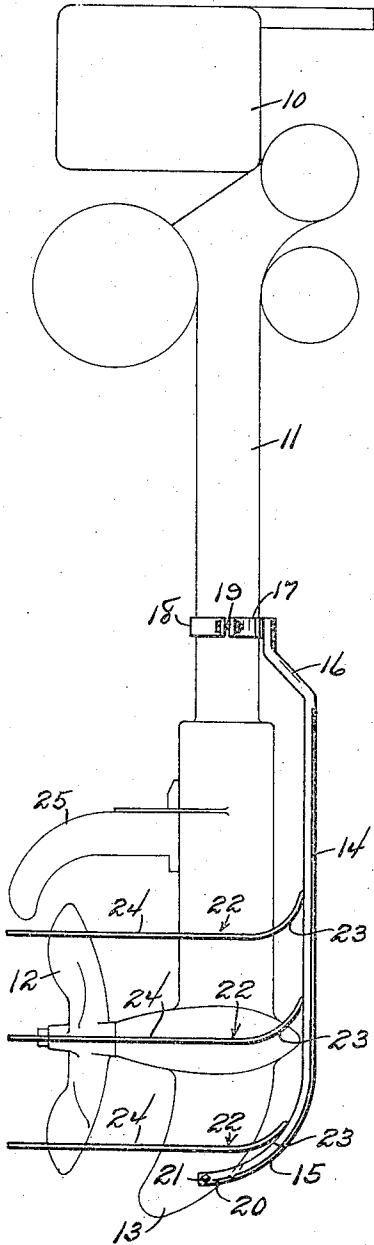


Fig. 2.

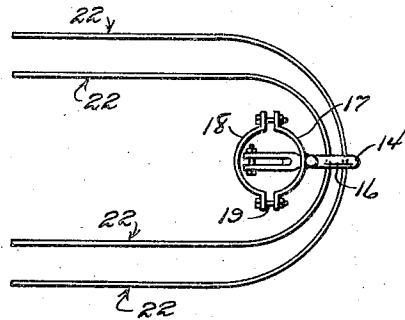
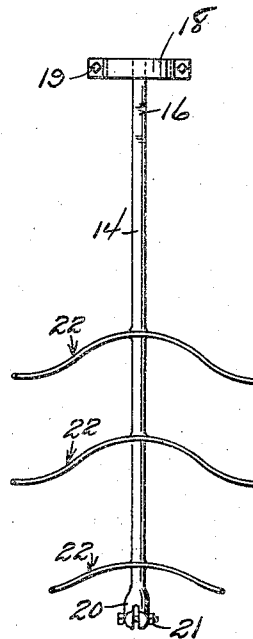


Fig. 3.



Winfield H. Wise

INVENTOR

BY *Victor J. Evans & Co.*

ATTORNEYS

UNITED STATES PATENT OFFICE

2,140,099

OUTBOARD MOTOR PROPELLER GUARD

Winfield H. Wise, Meridian, N. Y.

Application April 29, 1938, Serial No. 205,074

2 Claims. (Cl. 115—42)

The invention relates to propeller guards and more especially to outboard motor propeller guards.

The primary object of the invention is the provision of a guard of this character, wherein the same when associated with the outboard motor propeller will protect the latter to avoid its entanglement with weeds or the striking of obstructions when in operation for the propelling of a boat in the usual well-known manner and in this way eliminating the possibility of damage to the propeller and adjuncts thereof.

Another object of the invention is the provision of a guard of this character, wherein the construction thereof in its entirety is novel, allowing easy fitting and removal at will and when fitted for its association with the outboard motor propeller, the latter will be protected at opposite sides thereof and avoiding the striking of the blades against logs, rocks or other obstructions that might come in contact with the propeller in the use of the same on a boat, the guard being so constructed that it has fixed mounting at two points thereof with respect to the outboard motor propeller assembly and in this way assuring strength to resist obstructions and eliminating contact thereof with the blades of the propeller during the working of the same.

A further object of the invention is the provision of a guard of this character, which is simple in construction, thoroughly reliable and efficient in operation, convenient for application and removal, strong, durable, and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, which discloses the preferred embodiment of the invention and pointed out in the claims hereunto appended.

In the accompanying drawing:

Figure 1 is a side elevation of an outboard motor propeller showing the guard constructed in accordance with the invention applied thereto.

Figure 2 is a top plan view of the guard detached.

Figure 3 is an elevation thereof.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing in detail, the outboard motor propeller assembly 10 is attached to a boat (not shown) in the customary manner so that the propeller shaft housing 11 and propeller 12,

respectively, in the assembly of the entire unit may be tilted out of the water in the usual manner. The shaft housing 11 at its lower end beneath the propeller is formed with a rudder-like fin 13 and upon such housing is fitted the guard constituting the present invention and herein-after fully described.

The guard comprises a hanger rod 14 having the attaching ends 15 and 16, respectively. The end 16 is angularly bent offset to the major extent of the rod 12 and is integrally joined with the fixed part of a split coupling collar, this part being indicated at 17 while its separable part at 18, respectively. The parts 17 and 18 embrace the housing 11 considerably above the propeller 12 and are separably joined by fasteners 19 for tight fitting of the coupling collar upon such housing.

The end 15 is downwardly and inwardly curved in the direction of the fin 13 and is formed with a bifurcation creating a forked terminal 20 for straddling the said fin 13 and passed transversely through this terminal 20 and the fin straddled thereby is a fastener 21 so that the lower end of the said hanger rod 14 is separably fastened in place. The major extent of the rod 14 is offset to the housing in substantially parallel relation thereto.

Formed with the rod 14 is a plurality of vertically spaced protector arms or tines 22, these being extended from opposite sides of the rod 14 laterally and are curved downwardly at 23 and carried forwardly at 24 to be disposed at opposite sides of the propeller 12 out of the circular sweep of its blades and also to lie upwardly and downwardly in a perpendicular disposition with respect to the said propeller 12 and in this way shield the blades thereof to avoid entanglement of weeds or the contact of the said blades with obstructions such as logs, rocks or other damaging barriers within the circular sweep or path of the blades when the propeller 12 is active or rotating. Thus the propeller 12 will be completely protected from such obstruction or object to avoid damage thereto in the use of the same.

The arms or tines lowermost of the series thereof are in slightly contracted relation to the arms uppermost thereto and in this fashion affording protection at the underside of the propeller, relieving damage thereto at this point and thus avoiding the breakage of the propeller pins common in the construction thereof.

The housing 11 is formed with an overhang 25 with respect to the propeller 12, this being com-

mon in standard types of overboard motor propeller assemblies.

What is claimed is:

1. A guard for outboard motor propeller assembly having a propeller shaft housing, a propeller and a fin at the lower end of said housing comprising a hanger rod, an offset upper end on said rod, a two-part separable clamp carried by said end and embracing the said housing, a curved bifurcated lower end on said rod and straddling the fin, a fastener separably securing the lower end to said fin, and a plurality of vertically spaced guard arms extending laterally from opposite sides of said rod and along opposite sides of the propeller in spaced relation to the path of rotation of said propeller.

2. A guard for outboard motor propeller assembly having a propeller shaft housing, a propeller and a fin at the lower end of said housing comprising a hanger rod, an off-set upper end on said rod, a two-part separable clamp carried by said end and embracing the said housing, a curved bifurcated lower end on said rod and straddling the fin, a fastener separably securing the lower end to said fin, and a plurality of vertically spaced guard arms extending laterally from opposite sides of said rod and along opposite sides of the propeller in spaced relation to the path of rotation of said propeller, the lowermost arms being inset with respect to the uppermost arms of the series thereof.

WINFIELD H. WISE.