April 26, 1938. N. E. WARNER 2,115,375

TROLL LINE STABILIZER

Filed March 2, 1937

Fig. 1.

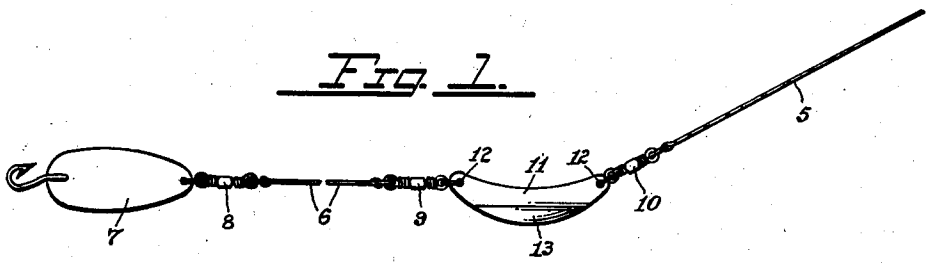


Fig. 2.

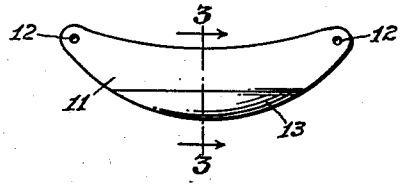


Fig. 3.

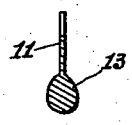


Fig. 4.

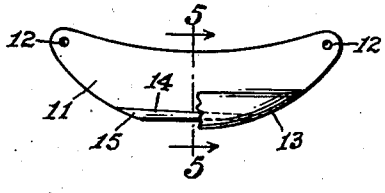
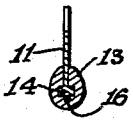


Fig. 5.



Inventor

Norman E. Warner

By John W. Maupin

Attorney

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TROLL LINE STABILIZER

Norman E. Warner, Seattle, Wash.

Application March 2, 1937, Serial No. 128,582

1 Claim. (Cl. 43—27)

My invention relates to troll line stabilizers, and the primary objects of the invention are to provide a stabilizer consisting of a thin metal plate having a weight on its lower edge, and which plate is adapted to be interposed in a troll line by swivel connections whereby the plate is prevented from rotary motion by the weight and water pressure, and whereby the swivel connections are caused to rotate and thus prevent the line from twisting and kinking as more fully hereinafter set forth.

In the drawing:

Figure 1 is a view in side elevation of a troll line showing the embodiment of my invention in association therewith;

Fig. 2 is a detail view in side elevation of the stabilizer;

Fig. 3 is a view in central transverse vertical section taken on a broken line 3—3 of Fig. 2;

Fig. 4 is a view in side elevation showing a weight detachably connected to the lower edge portion of the stabilizer; and

Fig. 5 is a view in vertical section taken on a broken line 5—5 of Fig. 4.

Referring in detail to the drawing wherein like reference numerals indicate like parts in the several views, the numeral 5 indicates a troll line, and the numeral 6 designates a leader as shown in Figure 1. A hook carrying spoon 7 is connected to the remote end of the leader by means of a swivel 8. My stabilizer is connected to the other end of the leader by a swivel 9 at one of its ends, and the other end of the stabilizer is connected to the troll line 5 by means of a swivel 10.

My troll line stabilizer consists of a relatively thin flat metal plate 11 that is preferably somewhat in the form of a crescent. The ends or horns of this crescent shaped plate are respectively provided with small holes 12 which are substantially in alignment with its upper or concave edge. A weight 13 is connected to the lower or convex edge portion of this plate, and said weight may be either an integral part of the plate, or soldered thereon, or it may be detachably connected thereto as shown in Figs. 4 and 5.

Referring to Figs. 4 and 5, the plate 11 has a rib or spline 14 formed on its lower edge. This rib or spline projects slightly out on each side of the plate as shown in Fig. 5 and tapers from its forward end to its rear end at 15. The weight 13 is provided longitudinally with a hole or recess 16 which corresponds with and is adapted to receive the rib or spline 14. Thus, it will be obvious that the weight may be slipped on and forced into tight engagement with the rib or spline. The advantage in this construction is that weights of different sizes may be used. The weights serve as sinkers and replace the sinkers that are ordinarily used on troll lines. It will be understood that the device is not confined to this particular means of attaching and detaching the weight and any other suitable means may be used.

In the use of my device, assuming that the troll line and its associated parts are assembled as shown in Fig. 1 and that same is being towed through the water, the weight 13, together with the lateral pressure of the water, holds the plate 11 in a vertical plane. The plate is thus prevented from turning or revolving and is held in such rigid or stabilized position that the swivels 10 and 9 must revolve in all cases where any torsional force is exerted on the troll line 5 or leader 6. This permits said line and leader to revolve freely as units whereby they are prevented from twisting which would result in kinking and possibly in snarling the line.

I claim:

A troll line stabilizer consisting of a crescent shaped thin metal plate having small holes in its ends aligned with the upper concave edge of the crescent plate, a rib formed on the lower convex edge of the plate and tapering from end to end, and an elongated weight having a hole extending longitudinally therethrough that conforms with and is adapted to receive the rib, and whereby the weight is detachably connected to the plate.

NORMAN E. WARNER.