April 26, 1938. E. CHOCHARD 2,115,302

TROLLING LINE SINKER

Filed Jan. 8, 1936

Fig. 1.

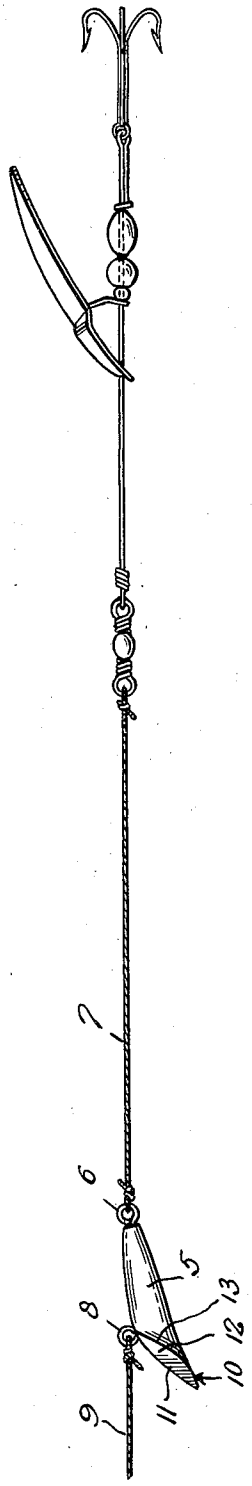


Fig. 3.

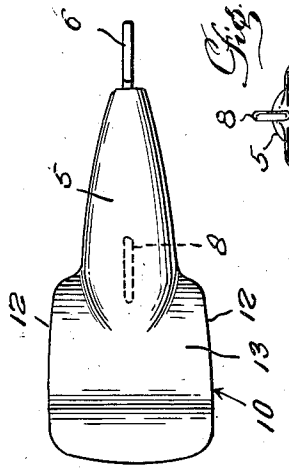


Fig. 4.

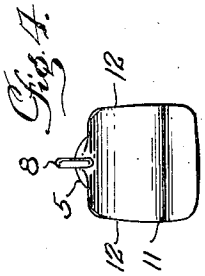


Fig. 2.

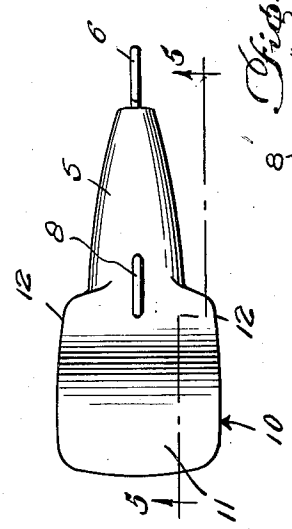
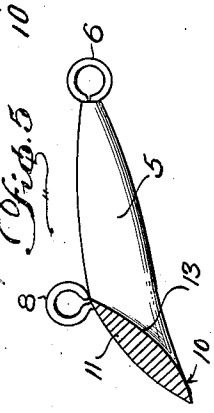


Fig. 5



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TROLLING LINE SINKER

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Application January 8, 1936, Serial No. 58,184

3 Claims. (Cl. 43—52)

This invention relates to improvements in trolling line sinkers of that type which are of light weight and have means on which the water reacts to carry the sinker and its attached bait line down to the depth required for deep water fishing.

The primary object of the present invention is to provide a trolling line sinker of the above type which is extremely simple in construction, economical to manufacture, and efficient in use.

The present invention particularly resides in the novel construction and form of sinker hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing:

Figure 1 is a side elevation of a sinker embodying the present invention, with the trolling line and bait line connected thereto.

Figure 2 is an enlarged top plan view of the sinker shown in Figure 1.

Figure 3 is a bottom plan view thereof.

Figure 4 is an end elevation looking toward the right of Figure 2.

Figure 5 is a longitudinal section taken on the plane of 5—5 of Figure 2.

Referring in detail to the drawing, the present sinker is of a weight only sufficient to insure that it will be fully immersed, and consists of a relatively small elongated body 5 that is tapered longitudinally and provided at its smaller extreme rear end with an eye 6 to facilitate connection of the bait line 7 to the sinker. The sinker body 5 is also provided on its upper side and directly at its front larger end with a second eye 8 to facilitate connection of the trolling line 9 to the sinker. At its larger forward end, the sinker body 5 is provided with an integral flattened head 10 whose upper surface 11 is inclined forwardly and downwardly and is of substantially aerofoil form. Also, the flattened head 10 is laterally enlarged to project symmetrically from each side of the body 5 and provide relatively short lateral wing portions whose upper and under surfaces are also inclined forwardly and downwardly and are of substantially aerofoil form.

As this headed and winged body is drawn through the water by its trolling line 9, the weight of such body will initially carry it below the surface, and the reaction of the water on the inclined surface 11 will cause the front end of the body 5 to be directed downwardly. The sinker is thus drawn down deeper into the water against the upward pull of the line 9, and this downward movement will continue until the tension of the trolling line 9 and the drag of the bait line 7 overcome the water pressure reacting on the surface 11. Due to the substantially aerofoil form of the surfaces 11 and 13, resistance to forward movement of the sinker through the water is reduced to a minimum.

It will be seen that I have provided a very simple one-piece sinker which may be economically cast to include the inclined head with its inclined wing portions. No attachment of separate vanes is required, and the wing portions of the head are not likely to readily get caught in submarine weeds because of the relatively thick and short form of such wings. The eyes 6 and 8 may be readily attached to the sinker when it is cast, and the finished device will be found to operate efficiently for the intended purpose.

It will be noted that the aerofoil surfaces 11 and 13 are specifically of the type known as "aero-curve" surfaces, or which are so scientifically curved as to provide maximum submerging power and minimum resistance to forward movement of the sinker through the water. As is well known, similar surfaces are provided for the wings or planes of aeroplanes to provide maximum sustaining or lifting power and minimum resistance to forward travel.

What I claim as new is:

1. A trolling line sinker comprising an elongated longitudinally tapered body having means at its extreme rear smaller end for connecting it to the bait line and means directly at its forward larger end for connecting the trolling line to the upper side thereof, said body having an integral laterally enlarged head on its larger forward end provided with a forwardly and downwardly inclined convex upper surface of aero-curve form.

2. A trolling line sinker comprising an elongated longitudinally tapered body having means at its extreme rear smaller end for connecting it to the bait line and means directly at its forward larger end for connecting the trolling line to the upper side thereof, said body having an integral laterally enlarged head on its larger forward end inclined forwardly and downwardly, said head being laterally enlarged to project symmetrically from each side of the body in the form of relatively short forwardly and downwardly inclined laterally projecting wing portions, the upper surfaces of the head and the wing portions being coincident and of aero-curve form.

3. A trolling line sinker comprising an elongated longitudinally tapered body having means

at its extreme rear smaller end for connecting it to the bait line and means directly at its forward larger end for connecting the trolling line to the upper side thereof, said body having an integral laterally enlarged head on its larger forward end inclined forwardly and downwardly, said head being laterally enlarged to project symmetrically from each side of the body in the form of relatively short wing portions having convex forwardly and downwardly inclined upper and under surfaces, said surfaces being of aerocurve form.

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