Sept. 8, 1942. J. ZENEWICH 2,295,250

AUTOMATIC LINE PULLER FOR FISHLINES

Filed May 16, 1941 3 Sheets-Sheet 1

Fig. 1.

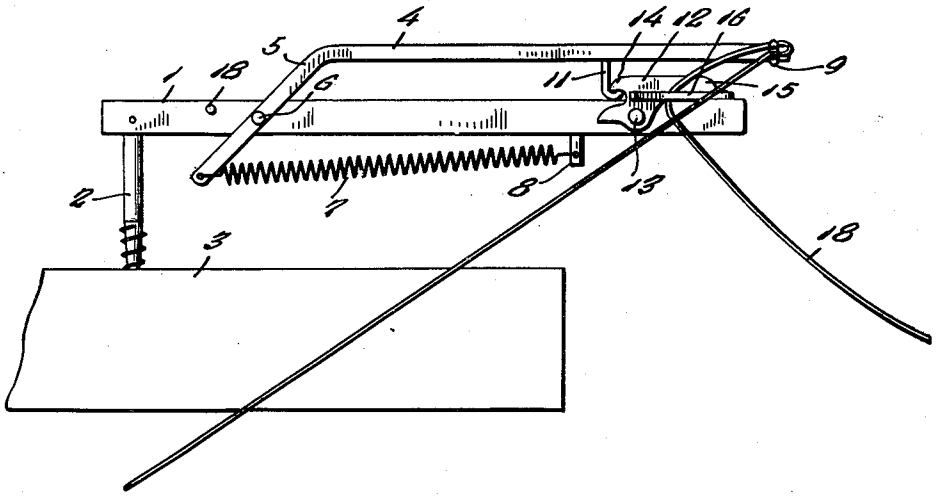
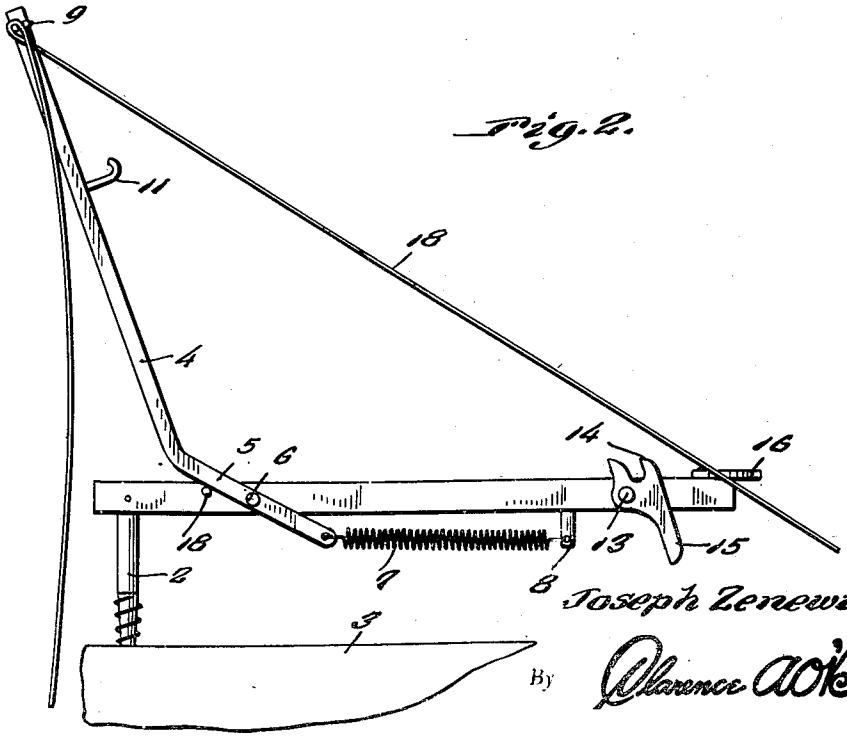



Fig. 2.




Inventor

Joseph Zenewich

By Clarence A. O'Brien

Attorney

Sept. 8, 1942. J. ZENEWICH 2,295,250

AUTOMATIC LINE PULLER FOR FISHLINES

Filed May 16, 1941 3 Sheets-Sheet 2

Fig. 3.

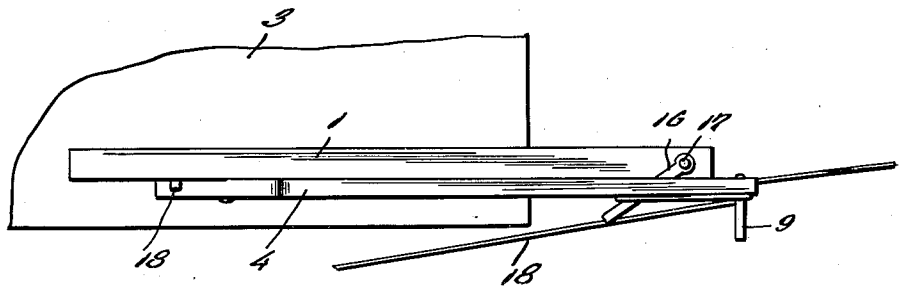



Fig. 4.

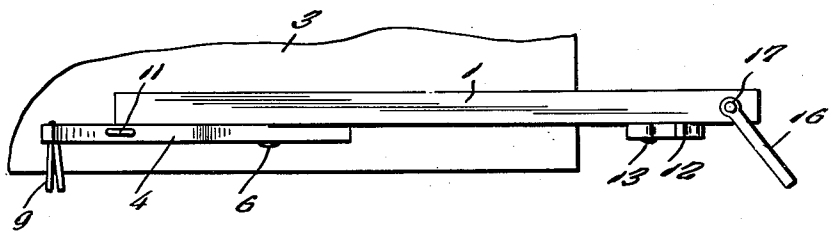



Fig. 5.

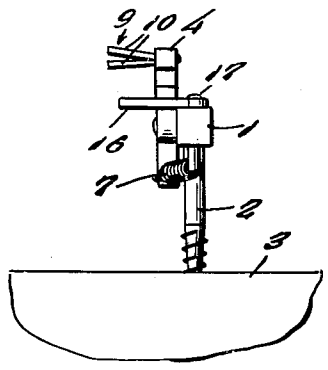
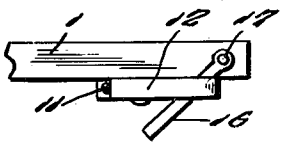



Fig. 6.




Inventor

Joseph Zenewich

By Clarence A. O'Brien

Attorney

Sept. 8, 1942. J. ZENEWICH 2,295,250

AUTOMATIC LINE PULLER FOR FISHLINES

Filed May 16, 1941 3 Sheets-Sheet 3

Fig. 7.

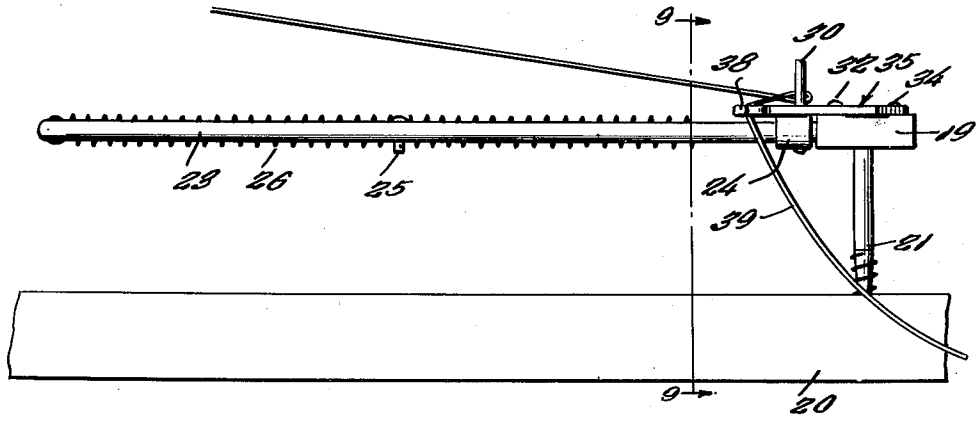
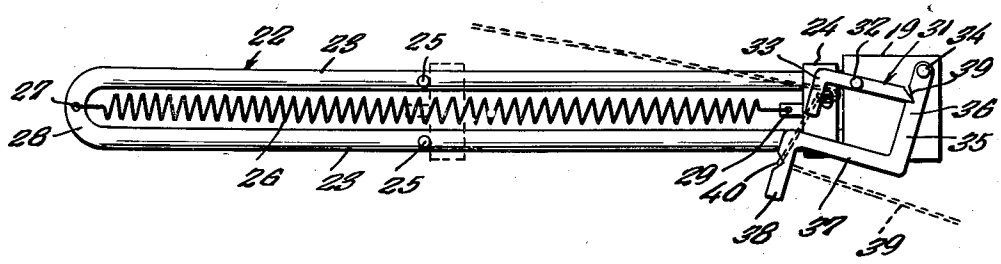



Fig. 8.



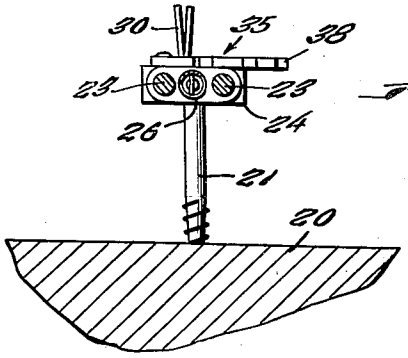




Fig. 9.

Inventor

Joseph Zenewich

By Clarence A. O'Brien

Attorney.

Patented Sept. 8, 1942 2,295,250

# UNITED STATES PATENT OFFICE

2,295,250

## AUTOMATIC LINE PULLER FOR FISHLINES

Joseph Zenewich, Chicago, Ill.

Application May 16, 1941, Serial No. 393,822

2 Claims. (Cl. 43—15)

My invention relates to improvements in automatic line pullers for fishing lines, the principal object in view being to provide a simply constructed, inexpensive device of this character which may be attached quickly to any relatively fixed base and set under tension for release by a pull exerted on the line, as by a biting fish, to react and pull in the line sufficiently to hook, or catch, the biting fish.

Other, and subordinate, objects are also comprehended by my invention all of which, together with the precise nature of my improvement, will be readily understood when the succeeding description and claims are read with reference to the drawings accompanying and forming part of this specification.

In said drawings:

Figure 1 is a view in side elevation of the preferred embodiment of my invention and showing the part in set position,

Figure 2 is a similar view showing the parts released,

Figure 3 is a view in top plan showing the parts in the Figure 1 position,

Figure 4 is a similar view showing the parts in the Figure 2 position,

Figure 5 is a view in front elevation with the parts in set position,

Figure 6 is a fragmentary view in top plan showing the front end of the support, the trigger, and the trigger trip,

Figure 7 is a view in side elevation of a modified embodiment of the invention showing the parts in set position,

Figure 8 is a view in top plan of the modified embodiment, and

Figure 9 is a view in vertical transverse section taken on a line 9—9 of Figure 7.

Referring to the drawings by numerals, and first to the preferred embodiment of the invention illustrated in Figures 1 to 6, my invention comprises a bar-like support 1 having a screw stud 2 extending at a right angle from the bottom of the same, adjacent what constitutes the rear end of the support, and for turning into a fixed base 3, for instance, the gunwale of a boat, a wharf, or the like, to attach to support 1 to the base in elevated substantially horizontal position. A line pulling arm 4 having an oblique angled rear end portion 5 is pivotally mounted on one side of said support, as by a pivot pin 6 extending through said portion 5 and so as to provide a rear end for the arm 4 depending below said support and a straight portion above said support for setting into parallel overlying relation to the support and swingable upwardly and rearwardly into upstanding position. A coil spring 7 having its opposite ends connected to said rear end of the arm 4 and to a stud 8 depending from the bottom of the support 1 adjacent the front end of the latter tensions said arm against setting and for reaction to swing upwardly and rearwardly. A line gripping stud 9 of resilient metal extends laterally from the front end of the arm 4 and is longitudinally slit to provide reactive clamping fingers 10 for gripping a fishing line therebetween. A depending hook-like catch 11 is provided on the arm 4 adjacent the front end thereof. A vertically swingable trigger 12 is pivoted intermediate its ends, as at 13, on said side of the support 1 adjacent, said trigger having a hooked rear end 14 adapted to be swung over the catch 11 into a cocked position under swinging of the trigger 12 in one direction, the arrangement being such that tension is exerted on the hooked end 14 of the trigger 12 through the catch 11 and arm 4 tending to rotate said trigger 12 in the opposite direction to release said catch. The trigger 12 is provided with a tail extension 15 projecting forwardly. A bar-like trip 16 is pivoted at one end, as at 17, on top of the support, forwardly of the trigger 12, for swinging horizontally rearwardly to move its other end under the trigger extension 15 and thereby latch the trigger in cocked position, said trip being swingable forwardly from under said trip extension 15 to release the trigger.

A lateral stop pin 18 is provided on the support 1 for engagement by the arm 4 to limit upward and rearward swinging movement thereof.

Referring now to the use and operation of the described embodiment of my invention, to set the device, the arm 4 is swung forwardly and downwardly on the pivot 6 until the catch 11 is positioned behind the trigger 12. The trigger 12 is then swung upwardly and rearwardly to position the hook end 14 thereof over the catch 11. The trigger 12 is then held in the described position and the trip 16 swung on its pivot 17 rearwardly under the tail extension 15 of the trigger thereby said trigger is latched in cocked position by said trip and the arm 4 is held in set position by the trigger. The fishing line 18' is then attached to the line gripping stud 8 at a suitable point in its length and by inserting said line between the clamping fingers 9 of said stud. The line 18' is then led from the stud 8 rearwardly and downwardly behind the trip 16 and then forwardly into the water, not shown. With the parts in the described position, a pull on the

forwardly extending part of the line 18', as by a fish biting, will swing the trip 16 forwardly from under the tail extension 15 of the trigger 12 to unlatch said trigger. Under tension exerted upwardly on the catch 11 through the arm 4 and spring 7, the hooked end 14 of the trigger will be swung by the catch 11 to free said catch. The arm 4 will then be swung upwardly and rearwardly through the medium of the spring 7 to exert a quick pull on the line thereby hooking the fish in a manner which will be clear.

In the modified embodiment of the invention as shown in Figures 7 to 9, the device comprises a rectangular block-like support 19 adapted to be attached to a relatively fixed base 20 by a threaded stud 21 depending from the bottom of the support and for turning into said base 20. Extending rearwardly from the support 19 is a U-shaped member 22 having its ends suitably secured to the rear side of the support 19 and providing a pair of laterally spaced rod-like guides 23 for a block-like cross-head 24 slidably mounted on said guides 23 for movement forwardly and rearwardly, respectively. A pair of stop pins 25 upstanding from said guides 23 intermediate the ends of the member 22 limits rearward movement of the cross-head 24. A coil spring 26 having one end connected, as at 27, to the bend 28 of the member 22, and its other end suitably connected to a stud 29 on the cross-head 24 urges the cross-head rearwardly and tensions the same against forward movement. A line gripping stud 30, similar to stud 9, is provided on the cross-head 24 in upstanding position. A right angled trigger bar 31 is pivoted intermediate its ends, as at 32, on top of the support 19 for swinging in opposite directions into and from a cocked position, respectively. The trigger 31 is provided with a laterally extending right angled rear finger 33 adapted, under swinging of the trigger, into cocked position to be positioned behind the line gripping stud 30 when the cross-head 24 is in its forward limit of movement. In the cocked position of the trigger 31, the front end thereof extends forwardly over the support 19 and the rear end finger 33 inclines across the rear of the line gripping stud 30 so that a pull exerted rearwardly on said stud by the spring 26 is directed against said finger in a manner tending to cam the finger from behind the stud and swing the trigger in the opposite direction from cocked position.

Pivoted at one end thereof, as at 34, on the support 19 is a trigger trip 35 having a straight leg 36 swingable rearwardly and forwardly into and from engagement with the front end of the trigger 31 crosswise of said end, and also having a right angled extension 37 projecting rearwardly from said leg 36 and terminating in a laterally outwardly extending end 38. The leg 36 of the trip 35 has an edge notch 39 adapted on the rearward swinging of the leg to seat the front end of the trigger 31 therein and thereby latch the trigger 31 in cocked position, the arrangement being such that forward swinging of the trip 35 will release the front end of the trigger 31 for camming by the stud 30 in the manner already described to release said stud.

Referring now to the operation of the described modified embodiment of the invention, the cross-head 24 is shoved forwardly on the guides 23, against the tension of the spring 26, into its forward limit of movement, and the trigger 31 swung in the proper direction to locate the finger 33 behind the stud 30 whereby the cross-head 24 is held in its forward limit of movement, and the trigger 31 cocked. The trip 35 is then swung rearwardly to seat the front end of the trigger 31 in the notch 39 and latch the trigger in cocked position. The fishing line 39 is fixed at any suitable point in the stud 30 in the manner which will be clear and then led behind the end 38 of the trip and threaded through a notch 40 in said end, said line then being led forwardly into the water. As will be manifest, a pull exerted on the line 39 by a fish will cause said line to pull on the end 38 of the trip 35 and swing the same forwardly to disengage the notch 39 from the front end of the trigger 31, thereby unlatching said trigger for camming by the stud 30 from cocked position to release the stud 30 and hence the cross-head 24. As soon as the cross-head 24 is released, the spring 26 pulls the same rearwardly together with the line 39 thereby hooking the fish.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly the invention is susceptible of modification in other respects than as set forth herein, and right is reserved to such other modifications as fall within the scope of the subjoined claims.

What I claim is:

1. A line pulling device for a fishing line comprising a support, means to attach the support to a relatively fixed base, settable spring tensioned means on said support movable in one direction into set position for return movement in the opposite direction under the tension exerted thereagainst, means to attach a fishing line to said settable means to be pulled in one direction by return movement of the settable means, releasable means to establish the set position of said settable means adapted for connection of said line thereto and operative to release by a pull exerted on said line in a direction opposite to that first mentioned, said releasable means when released freeing said line from connection thereto for direct pull thereon by said settable means.

2. A line pulling device for a fishing line comprising a bar-like support, means at one end of said support for attaching the same to a base in elevated substantially horizontal position, a line pulling arm pivoted on said support adjacent one end thereof for swinging movement of its other end downwardly and upwardly relative to the support, spring means tensioning said arm for upward swinging of said other end thereof, means on said other end of the arm for attaching a fishing line thereto to be pulled in by upward swinging of said other end, and releasable means to hold said arm down in opposition to the tension exerted thereagainst comprising a hook-shaped catch on said arm, a trigger pivoted intermediate its ends on said support and having a hook end adapted to be set in one direction over said catch and to be swung in the opposite direction to release said catch under upward swinging of said other end of said arm, and coacting trip devices on said trigger and support, respectively, for blocking swinging of said trigger in said opposite direction comprising a tail extension on said trigger, and a bar-like trip pivoted at one end on said support for swinging beneath said extension and looping of the line around the same whereby said trip may be swung from under the extension by pull exerted on the line.

JOSEPH ZENEWICH.