May 19, 1931. C. P. ORR 1,805,845

TIE HANDLE

Filed Jan. 31, 1930

Fig. 1.

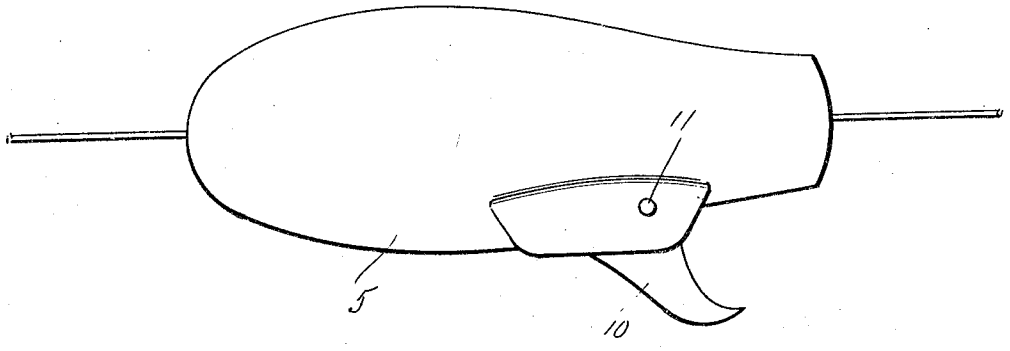
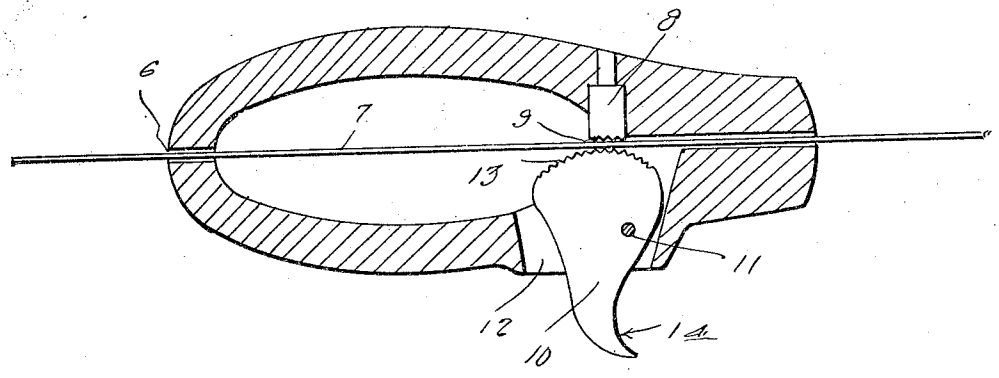


Fig. 2.



Inventor

Calvin P. Orr

By Clarence A. O'Brien

Attorney

Patented May 19, 1931 1,805,845

UNITED STATES PATENT OFFICE

CALVIN P. ORR, OF LAONA, WISCONSIN

TIE HANDLE

Application filed January 31, 1930. Serial No. 424,960.

The present invention relates to tie handles adapted for use in tying or wrapping wire about bundles of flooring or other material and has for its principal object to provide gripping means for the handle whereby the wire may be drawn tightly about the bundle for the purpose of securing the ends together.

One of the important objects of the present invention is to provide a tie handle of this character by means of which the strands of wire may be easily inserted and drawn therethrough for attaching the handle in a desired position to the wire to facilitate the wrapping and tying action.

A still further object is to provide an article of this character of a simple and practical construction, which is efficient and reliable in performance, relatively inexpensive to manufacture and otherwise well adapted to the purpose for which the same is intended.

Other objects and advantages reside in the special construction, combination and arrangement of the various elements forming the invention as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view,

Figure 2 is a longitudinal sectional view therethrough.

Referring to the drawings in detail for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a handle member of relatively elongated construction and of a rounded formation. The handle is hollow and is provided at its opposite ends with openings 6 through which a strand of wire 7 may be inserted.

A plug 8 is fitted in one of the walls of the handle with its inner end milled, as shown at 9 and protruding within the hollow interior portion of the handle for engaging one side of the wire.

A trigger 10 is pivotally mounted upon a pin 11 extending transversely of an opening 12 formed in the wall of the handle opposite from the plug 8, said trigger having its inner end formed into a cam 13 and likewise milled for cooperating with the milled end 9 of the plug to tightly grip the wire therebetween.

The outer end of the trigger is formed into an arcuate finger grip 14. It will be apparent from the foregoing that upon insertion of a strand of wire through the handle and gripping the same by the hand of the user that the finger may engage the trigger 10 and upon the application of pressure thereto the wire will be tightly gripped between the milled surfaces of the plug 8 and the inner end of the trigger.

The wire may then be drawn about a package or other object for the purpose of tightly tying the ends of the wire.

It is obvious that my invention is susceptible to various changes and modifications in construction without departing from the spirit of the invention or the scope of the appended claim, and I accordingly claim all such forms of the device to which I am entitled.

Having thus described my invention, what I claim as new is:

A device for facilitating the tying of wire about bundles consisting of an elongated hollow hand grip having a longitudinal passageway therethrough for receiving the wire to be grasped, the handle at one side thereof and adjacent to one end being provided with a longitudinally extending slot, a serrated gripping plug arranged in the interior of the handle on the opposite side thereof from said slot, and an eccentric gripping plate eccentrically pivoted within the slot and extending into the handle toward the plug and having its inner edge provided

with outwardly disposed gripping teeth for coaction with said plug, and said plate having its outer end projected laterally from the handle through the slot and arcuately formed to provide a finger grip for increasing the gripping action of the inner end of the plate when the finger grip and the handle are simultaneously urged in a predetermined direction with respect to the wire.

In testimony whereof I affix my signature.

CALVIN P. ORR.