

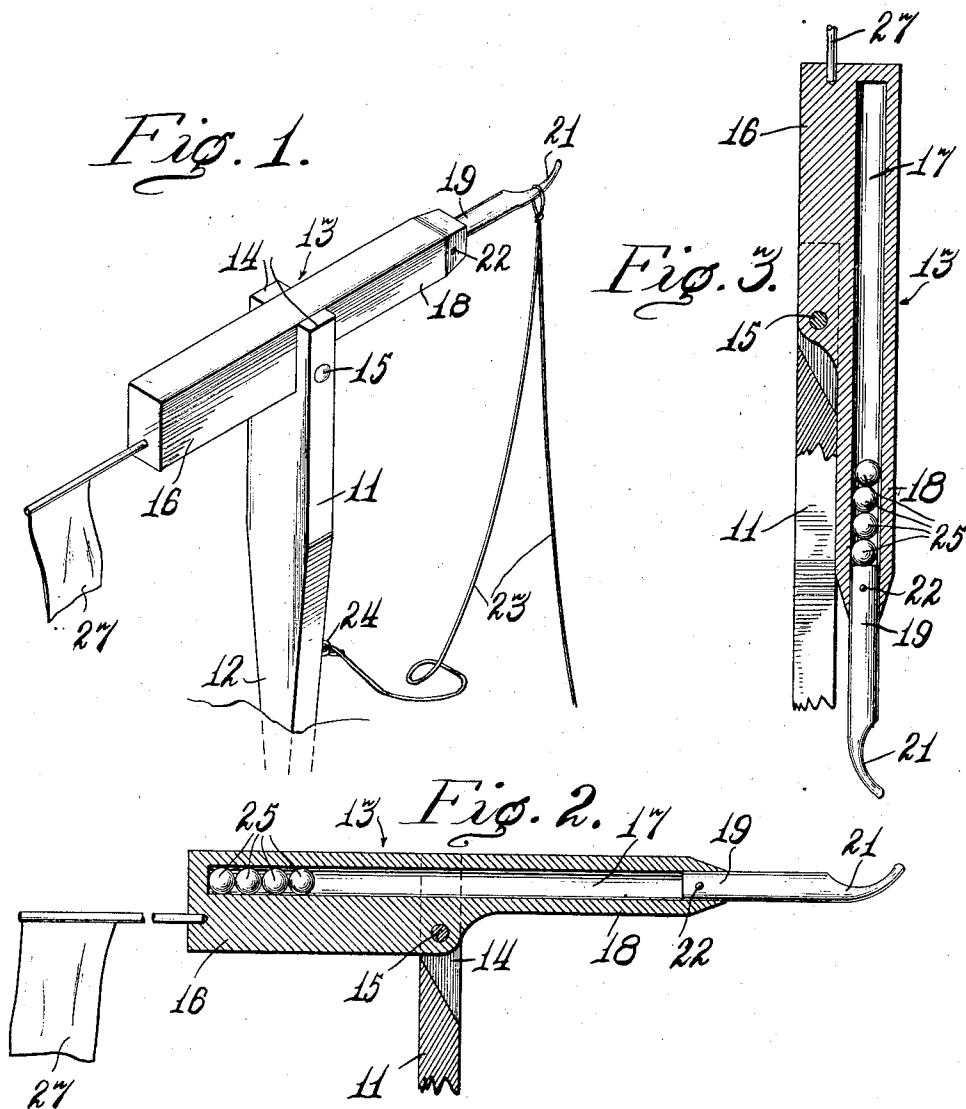
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DIP-UP

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DIP UP

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The invention relates to improvements in dip-ups and particularly to a novel signaling device, for fishing, having over-balancing means therein to insure its proper operation and retention in various positions.

An object of the invention is to provide an improved dip-up having improved means therein for automatically effecting operation of the signal upon the slightest provocation.

Another object of the invention is to provide an improved device of the character referred to including novel means for yieldably retaining the operating means from accidental displacement.

Another object of the invention is to provide an inexpensive device of the character referred to embodying novel yieldable means for detachably retaining a fish line thereover.

The foregoing and such other objects of the invention as will appear hereinafter as the description proceeds, will be more readily understood from a perusal of the following specification, reference being had to the accompanying drawings, in which:

Fig. 1 is a perspective view showing the dip-up in use.

Fig. 2 is a longitudinal central sectional view through the portion of the device, showing the dip-up in horizontal position.

Fig. 3 is a view similar to Fig. 2 showing the cross member in vertical position.

The improved device is particularly adapted for use by fishermen, or the like, who employ a plurality of lines, as a means for indicating a catch. The improved device illustrated in the accompanying drawings preferably comprises a vertically arranged support 11 having its lower end tapered as at 12, to facilitate its being driven into the ground adjacent a body of water. The upper end of the support 11 is preferably bifurcated or forked, as shown, and a cross member or arm 13 is mounted between the forked ends 14 of said support. A bearing pin 15 extends through the ends 14 and the lower portion of the enlarged rear end 16 of the cross arm and provides a suitable pivotal mounting for the arm 13. With the arm mounted in the manner described in the foregoing, it

is perfectly balanced to remain substantially horizontally.

A longitudinal bore 17 extends inwardly from the reduced forward end 18 of the cross arm and terminates short of the rear end thereof. The open end of the bore 17 is preferably closed by a suitable plug 19 having a hook portion 21 extending outwardly beyond the end of cross arm 13. A pin 22 is preferably provided for maintaining the plug 19 in place. The hook portion 21 is adapted to receive thereover a fish line 23, one end of which is preferably secured to the support 11 by any suitable means, 24.

Prior to the insertion of the plug 19 in the bore 17, a plurality of spherical weights 25, preferably in the form of ball bearings, are placed in the bore. These weights are adapted to normally remain at the rear end of the arm 13 (as shown in Fig. 2) for maintaining it substantially horizontal. Tilting of the arm rearwardly downwardly is prevented by its engagement with the support 11.

When tension is exerted on the line 23, the front end of the arm 13 is tilted downwardly sufficiently to cause the spherical weights 25 to move forwardly in the bore 17. This overbalances the arm and it moves into a substantially vertical position as illustrated in Fig. 3. A suitable signal such as a flag 27, is preferably secured on the rear end 16 of the arm 13. When said arm is moved into a substantially vertical position, the flag is held vertically to attract attention to indicate a catch. When the arm 13 is tilted downwardly, the line 23 slips from the hook 21 and is securely held from being pulled away by the catch by its anchorage at 24.

It can readily be understood that a very efficient, reliable and inexpensive structure is provided by the device described in the foregoing and one which may be quickly placed into use or de-mounted.

I claim:

1. An article of the class described comprising, in combination, a vertical support; a cross member pivotally balanced on the upper end of said support; an indicator on one end of the cross member and a hook on the other

end to detachably receive a line thereover,
said cross member having a longitudinal bore
therein for receiving a plurality of spherical
weights adapted to have free movement
therein to overbalance said cross member
5 whereby it may assume and be retained either
horizontally or vertically.

2. An article of the character described
comprising, in combination, a support; a
10 cross member pivotally balanced on the upper
end of said support, said cross member hav-
ing a longitudinal bore therein terminating
short of one end; a plurality of spherical
weights in said bore; a hook secured in said
15 bore and extending outwardly from the other
end of the cross member for receiving a line
thereover; and a signal on the first mentioned
end of the cross member to assume a vertical
position upon tilting said cross member,
20 whereupon the weights in said cross member
move to the lower end of the bore and main-
tain said cross member vertically.

3. An article of the class described com-
prising, in combination, a vertical support
25 having a cross arm pivotally balanced on the
upper end thereof, a longitudinal bore in said
cross arm; spherical weights in said bore,
said weights normally resting at the closed
end of said bore to maintain the cross arm
30 substantially horizontal; a plug in the open
end of said bore having a hook-like extension
thereon for receiving a line thereover, said
weights being adapted to move toward said
plug upon the tilting of the cross arm to urge
35 and maintain said arm substantially vertical;
and a signal mounted in and extending be-
yond the closed end of the cross arm for indi-
cating the position of said arm.

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