Aug. 2, 1966 C. B. RASMUSSEN 3,264,028

LITTER PICK-UP DEVICE

Filed Feb. 14, 1964

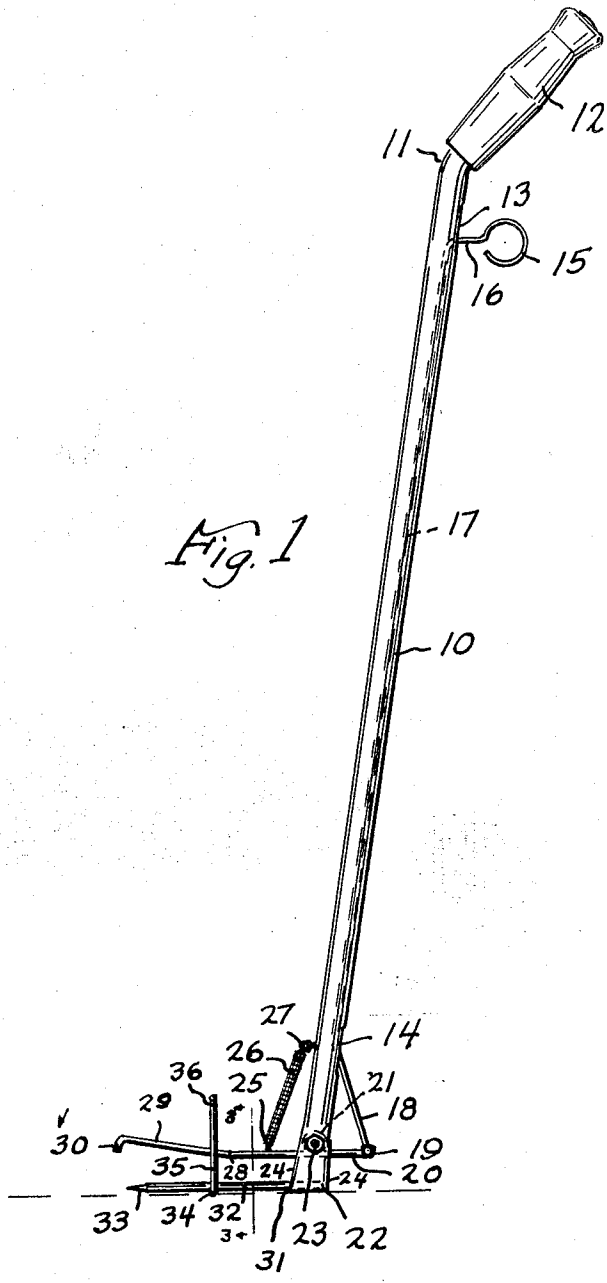


Fig. 1

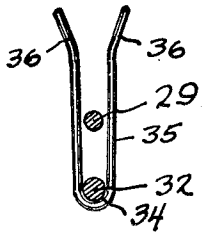


Fig. 3

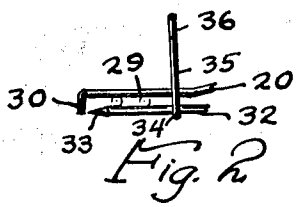


Fig. 2

INVENTOR.
Christian B. Rasmussen
BY Sam J. Slotky
ATTORNEY

United States Patent Office 3,264,028 Patented August 2, 1966

3,264,028

LITTER PICK-UP DEVICE

Christian B. Rasmussen, Box 303, Sanborn, Iowa

Filed Feb. 14, 1964, Ser. No. 344,847
1 Claim. (Cl. 294—19)

My invention relates to a litter pick up device.

An object of my invention is to provide a device which will allow a person to conveniently pick up papers, cigarettes, or any other materials which can then be deposited into a convenient receptacle.

A further object of my invention is to provide a positively acting pick up device which will insure that the litter, etc. is firmly grasped, and which device can be readily released, the device also including features wherein more than one article can be picked up before being deposited.

With these and other objects in view, my invention consists in the construction, arrangement, and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

FIGURE 1 is a side elevation of my device,

FIGURE 2 is a detail of a portion of the device showing the device holding more than one article, and

FIGURE 3 is an enlarged sectional view of FIGURE 1 taken along the lines 3—3 thereof.

In describing my invention I have used the character **10** to designate an elongated tubular member, the member **10** being bent at **11** into a further angularly bent portion to which is attached the handle portion **12**.

I have further used the characters **13** and **14** to indicate elongated slots, and the character **15** indicates a loop which is an integral extension of the heavy wire member **16** which includes the elongated portion **17** passing through the tube **10**, the portion **17** extending into the further integral portion **18** which is pivotally secured at **19** to the rod **20**, the rod **20** including an ear or lug portion **21** attached thereto and mounted within the expanded portion **22** of the member **10**, the member **21** being suitably pivoted by means of a bolt **23**, the portion **22** including open slots at **24** to allow for rocking of the bar **20** when pivoted, and attached at **25** to the bar **20** is a helical spring **26** suitably attached as at **27** to the tube **10**.

The rod **20** is slightly bent angularly outwardly at **28** and into the integral portion **29** which terminates in the downwardly bent end portion **30**. Attached within the portion **22** at **31** is a substantially horizontally positioned rod or bar **32** which terminates in the pointed end **33** and attached at **34** to the bar **32** is the substantially U-shaped member **35** having the outwardly bent portions **36**, the member **35** acting as a guide to the rod portion **29**.

The device is used in the following manner. The device will usually be operated in the position shown in FIGURE 1, however it is capable of being slightly moved angularly for different objects if such is desired, and it will be noted that the pointed end **33** of the bar **32** can be readily positioned under any object whereby the object will pass over the bar **32**, and then the loop **15** which receives the forefinger of the hand is pulled upwardly which will correspondingly bring the bar **20** and the bar portion

downwardly to grasp the objects between the portion **29** and the bar **32**, and as shown in FIGURE 2, whereupon the objects can thence be placed over the receptacle and the forefinger is released whereby the spring **26** will carry the parts back to normal position. The bent portion **30** insures a firm retention of papers and other objects, and the outwardly bent portion also permits graspment of more than one article, and whereby one or more articles can be picked up before being released into the container. For instance, as shown in FIGURE 2, two objects shown by the dotted structure can be held, first by picking up one object and then the other since the portion **29** will be substantially parallel to the bar **32**.

The member **35** insures that the movable bar **20**, **29** is maintained in a true vertical position at all times to thereby further insure proper working of the tool.

It will now be noted that I have provided the advantages mentioned in the objects of my invention with further advantages being apparent.

Some changes may be made in the construction and arrangement of the parts of my invention without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claims any modified forms of structure or use of mechanical equivalents which may be reasonably included within their scope.

I claim as my invention:

A litter pick up device comprising a vertical lengthened tube, a handle attached at one end of said tube, a horizontal single fixed bar attached at the lower end of said tube, a further single bar pivotally attached to said tube and spaced from said single bar and being generally parallel thereto throughout its range of operation, said further single bar being adapted to move towards said bar during a pick up action, said single fixed bar having a pointed end, said single fixed bar including a substantially U-shaped guide member attached thereto in which said further single bar moves, said further single bar having an outwardly bent end portion, said end portion having a bent-over end portion adapted to lie exteriorly of, and closely adjacent to said pointed end when said further single bar approaches said single fixed bar, a spring attached to said further single bar and said handle for retracting said further single bar from said single fixed bar, a lengthened wire received in said tube, including an upper finger grip portion and being connected to said further single bar.

References Cited by the Examiner

UNITED STATES PATENTS

1,213,278	1/1917	Seashore	294—19
1,245,924	11/1917	Johnson	294—104 X
1,337,398	4/1920	Fleckner	294—19
2,189,713	2/1940	Hansen	294—104 X
2,806,733	9/1957	Hund	294—50.9
2,905,498	9/1959	Lunde	294—19
3,105,715	10/1963	Happ	294—61

GERALD M. FORLENZA, *Primary Examiner.*

SAMUEL F. COLEMAN, *Examiner.*

G. F. ABRAHAM, *Assistant Examiner.*