Oct. 6, 1970 M. VOSBIKIAN 3,532,314

COLLAPSIBLE TRASH COLLECTOR

Filed July 25, 1968 2 Sheets-Sheet 1

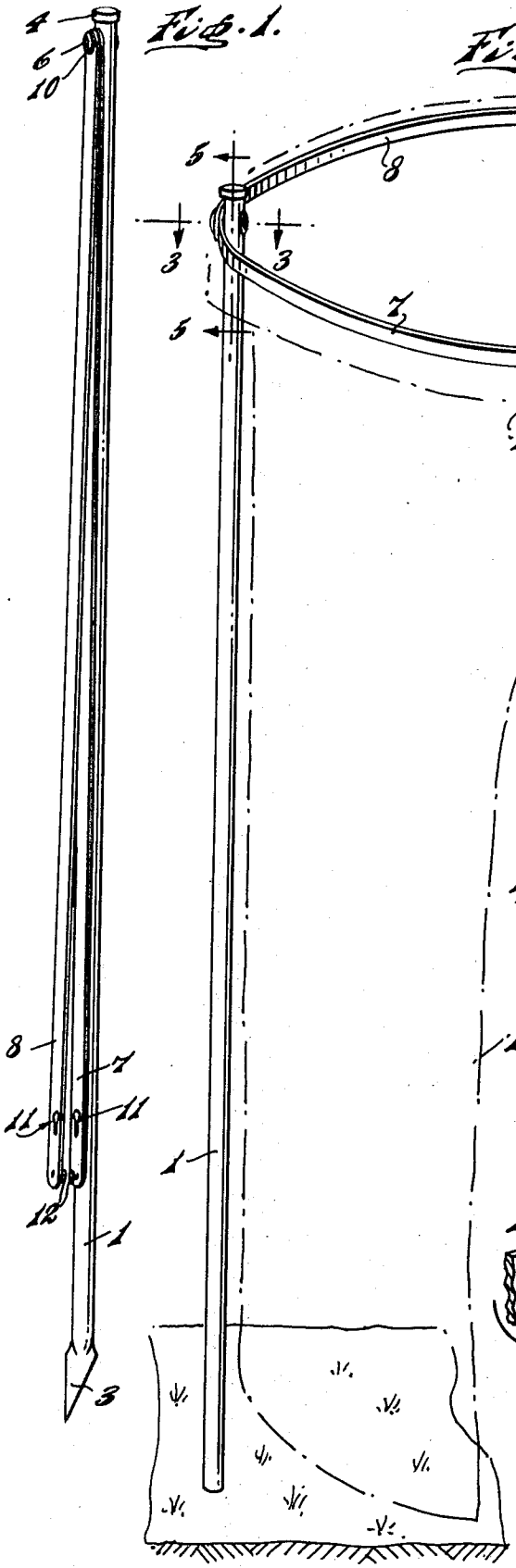


Fig. 1.

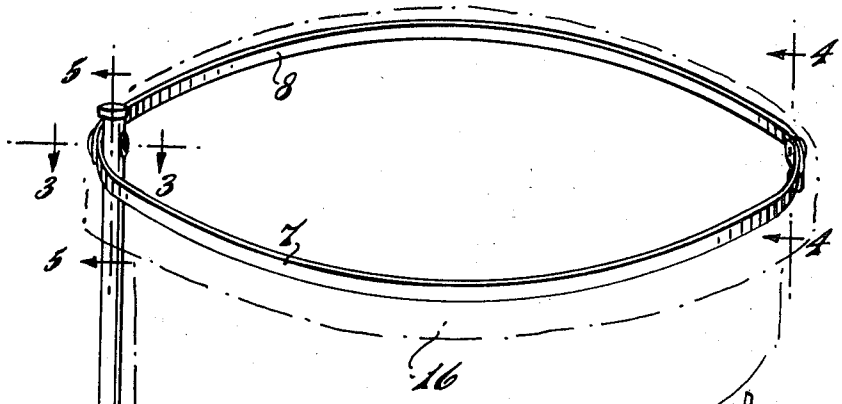


Fig. 2.

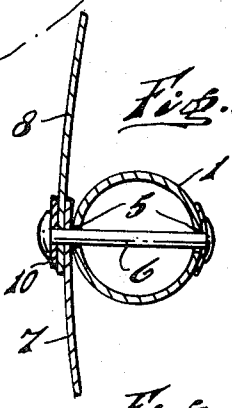


Fig. 3.

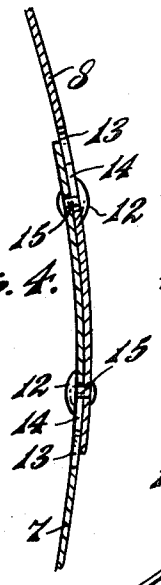


Fig. 4.

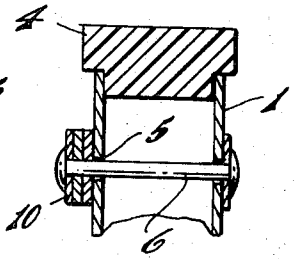


Fig. 5.

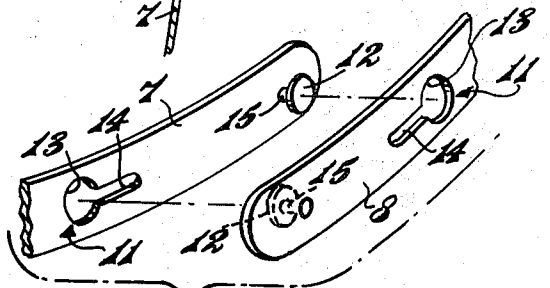


Fig. 6.

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Oct. 6, 1970 M. VOSBIKIAN 3,532,314

COLLAPSIBLE TRASH COLLECTOR

Filed July 25, 1968 2 Sheets-Sheet 2

Fig. 8.

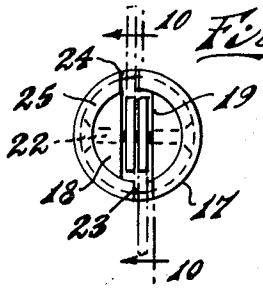
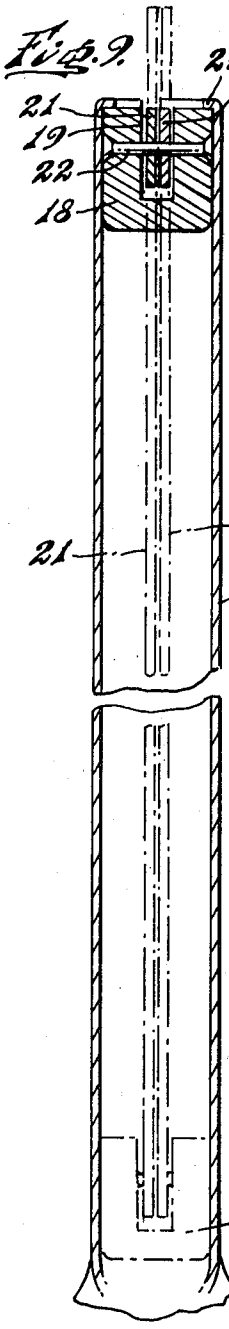


Fig. 9.



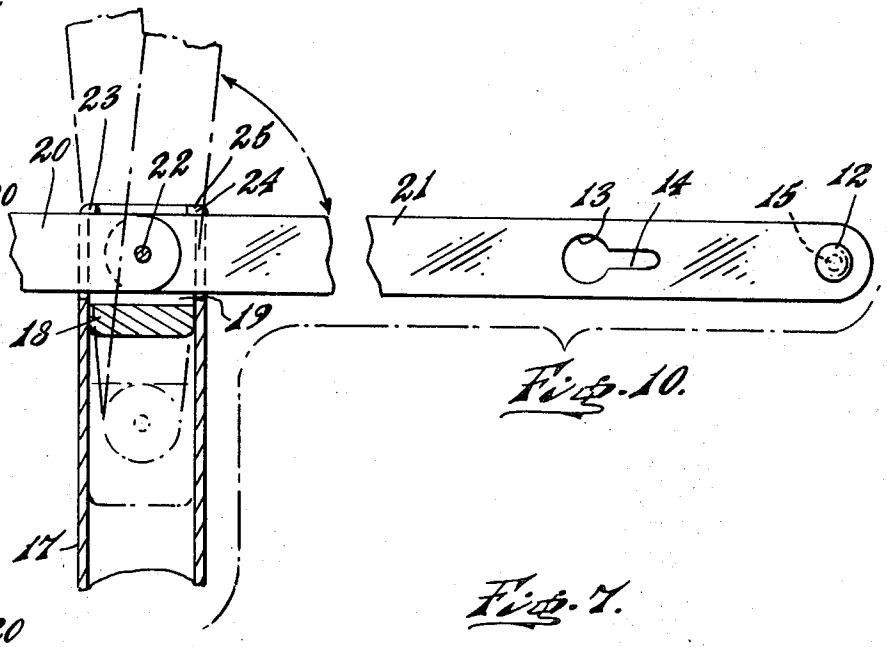
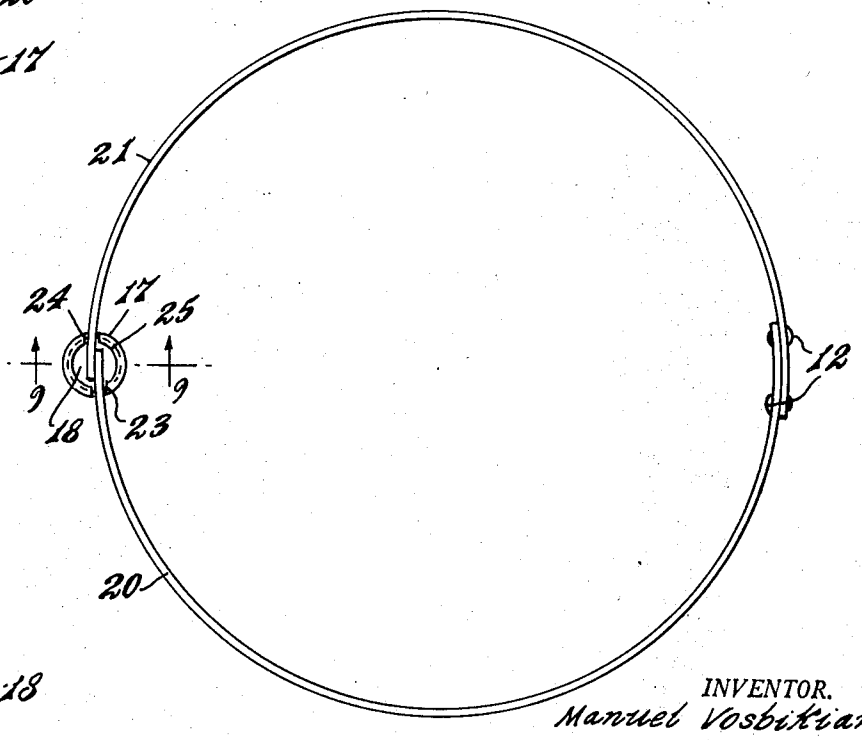


Fig. 10.

Fig. 7.



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3,532,314

Patented Oct. 6, 1970

3,532,314

COLLAPSIBLE TRASH COLLECTOR

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Filed July 25, 1968, Ser. No. 747,706
Int. Cl. B65b 67/00; F16m 11/04
U.S. Cl. 248—97 2 Claims

ABSTRACT OF THE DISCLOSURE

This invention is a collapsible trash collector having a standard adapted to be inserted in the ground and having a collapsible hoop for retaining a bag in an upright position, the hoop being pivotally supported at the upper end of the standard.

The standard may be tubular to receive the flexible hoop strips.

Other novel features of construction and advantage will hereinafter more clearly appear in the detailed description and the appended claims.

For the purpose of illustrating the invention, I have shown in the accompanying drawings preferred embodiments of it, which I have found in practice to give satisfactory and reliable results. It is, however, to be understood that the various instrumentalities of which the invention consists can be variously arranged and organized, and the invention is not limited to the exact arrangement and organization of these instrumentalities as herein set forth.

Referring to the drawings:

FIG. 1 is a perspective view of a collapsible trash collector embodying my invention, with the arms of the hoop in collapsed and folded position.

FIG. 2 is a perspective view of FIG. 1 with the standard inserted in the ground and the hoop arms locked in their lateral operating position.

FIG. 3 is an enlarged fragmentary section on line 3—3 of FIG. 2.

FIG. 4 is an enlarged fragmentary section on line 4—4 of FIG. 2, showing the arms of the hoop in locked position.

FIG. 5 is a section on line 5—5 of FIG. 2, also on an enlarged scale.

FIG. 6 is an exploded perspective of a portion of the two arms of the hoop and showing the manner in which they are locked in assembled condition.

FIG. 7 is a top plan view of a modified form of the invention.

FIG. 8 is a top plan view on an enlarged scale, but with the hoop forming arms in collapsed condition within the tube which forms the standard.

FIG. 9 is a section on line 9—9 of FIG. 7, but with the arms shown in their hoop forming position.

FIG. 10 is a section on line 10—10 of FIG. 8, but with the arms shown in their hoop forming position and partly broken away.

Referring first to the form shown in FIGS. 1 to 6; the collapsible trash collector consists of a standard 1, which may be of tubular formation as shown and provided with a pointed end 3 adapted to be inserted in the ground. The upper end of the standard is capped with any desired type of plug 4 and has located a desired distance from

the top a hole 5 adapted to receive and retain a rivet 6, said rivet retaining in frictional and pivotal engagement arms 7 and 8 and a washer 10. The arms 7 and 8 are formed from a flexible thin material and are provided at their outer ends with cooperating apertures 11 and locking pins 12, said apertures consisting of a hole 13 of sufficient size to clear the head of the locking pin and terminating in a lateral extending slot 14 adapted to engage the shank 15 of the locking pin 12 and hold it in frictional engagement therewith.

In operation, when it is desired to set up the trash collector in bag supporting position, the standard 1 is first inserted in the ground, the hoop forming arms are unfolded and brought around to form a hoop with the pins of each arm inserted in the cooperating holes in the arms, said arms are then pulled slightly apart to force the pin shanks into their cooperating slots and thus locking the hoop in assembled position to support and retain a bag of any desired material as at 16.

In some cases it may be desirable to have the hoop forming arms collapsible within the tubular standard and in FIGS. 7 to 10 inclusive I have shown a modified form of the invention wherein the tubular standard 17 is provided with a plug 18 adapted to slide freely within the bore of the tube, said plug being slotted at 19 to receive the hoop forming arms 20 and 21, one end of said arms being held in pivotal engagement in the slot and in said plug by rivet 22. The top of the standard 17 is provided with suitable slots 23 and 24 to receive the arms 20 and 21 when they are in their hoop forming position and forming a stop for said arms. The top of the standard 17 is rolled over as at 25 to form a stop to prevent the removal of the plug from the tube.

The outer ends of the arms 20 and 21 are provided with the same pin and slot arrangement for locking them together as shown in the previous form.

In operation, when it is desired to place the trash collector in operating position, the arms are first grasped at their ends which extend outside the standard and are then withdrawn and placed in their lateral bag supporting position and locked together, with the slots in the standard forming a stop to limit the downward movement of the formed hoop.

The bag supporting hoop and standard of the trash collector of the present invention is particularly designed for collecting leaves and small litter usually found in the average garden.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A collapsible trash collector comprising a standard having its lower end adapted to be inserted in the ground, and a hoop comprising flexible strips having one end pivotally supported on a transversely extending pivot pin at the upper end of the standard, said strips having their free ends provided with interlocking means including pin shanks to secure the strips in hoop formation extending laterally from the standard, said hoop being adapted to receive the upper end of a bag and retain it in an upright condition, said interlocking means comprising arms having holes, said arms are then pulled slightly apart to force the pin shanks into their cooperating slots and thus locking the hoop in assembled position to support and retain a bag of any desired material.

2. The construction defined in claim 1, wherein the standard is tubular and the pivotal support is formed by a member slidable within the standard and to which the flexible strips are pivoted, said standard having means to retain the hoop in substantially horizontal position.

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CHANCELLOR E. HARRIS, Primary Examiner

U.S. Cl. X.R.

248—99; 211—171