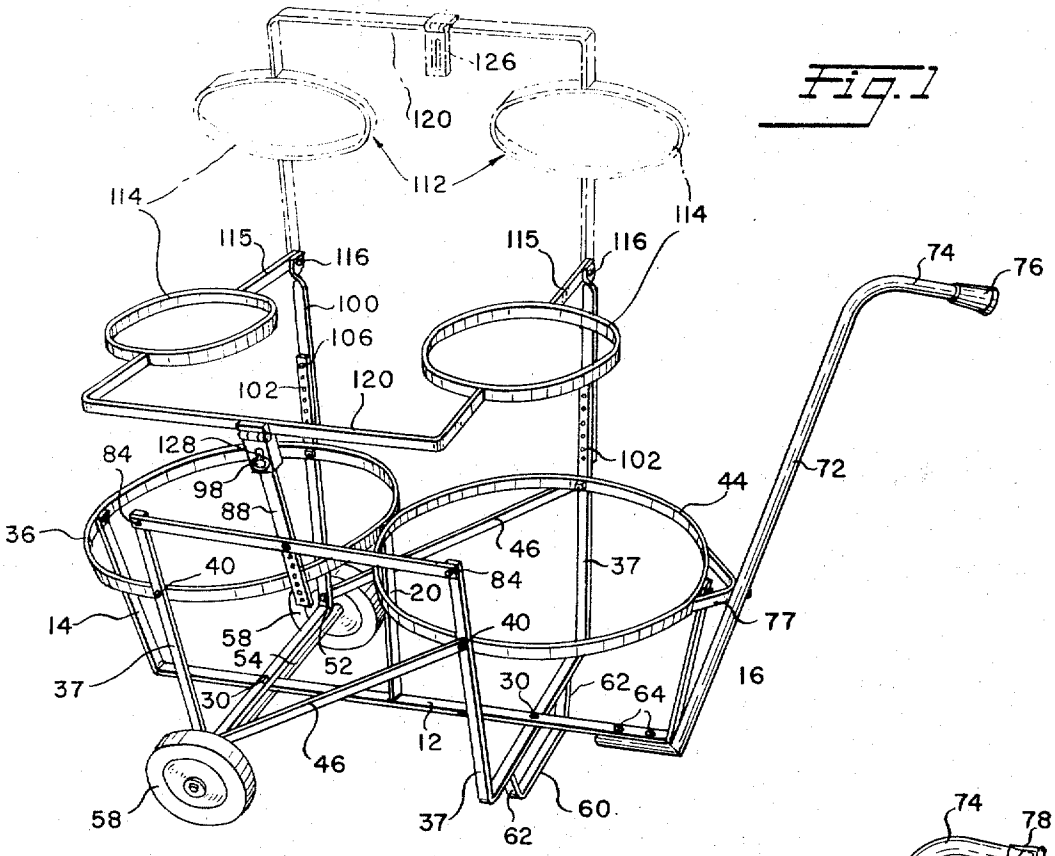
July 18, 1972 C. R. BAILEY Re. 27,437

DOUBLE REFUSE CAN HOLDER

Original Filed June 5, 1968 2 Sheets-Sheet 1

Fig. 1



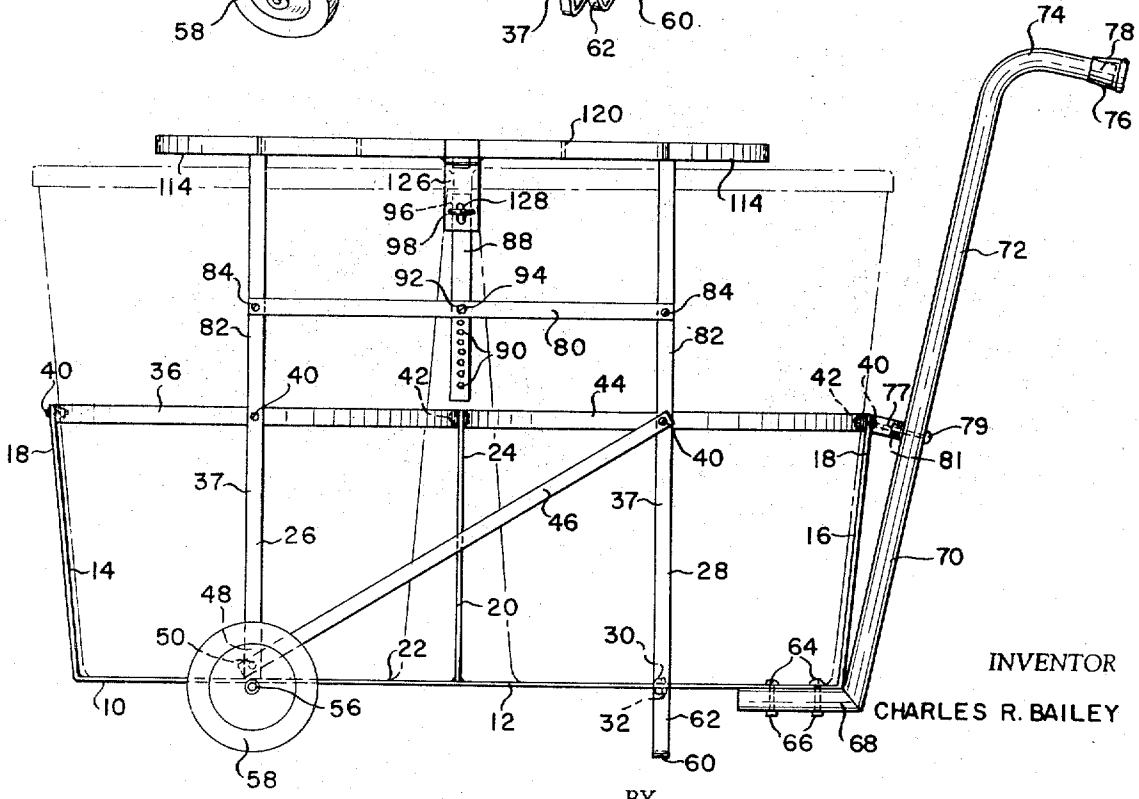


Fig. 2

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DOUBLE REFUSE CAN HOLDER

Original Filed June 3, 1968 2 Sheets-Sheet 2

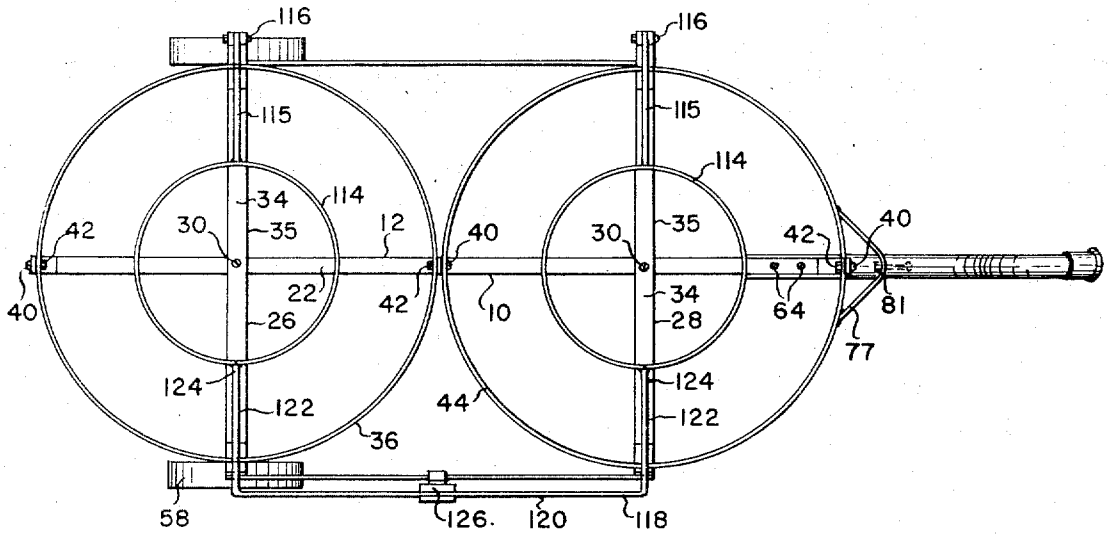


Fig. 3

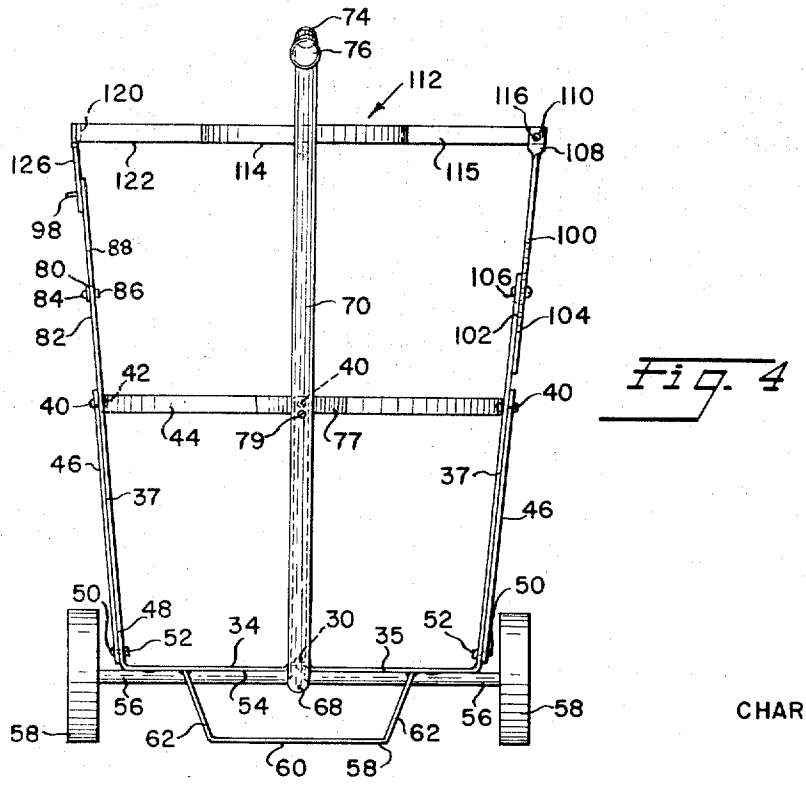


Fig. 4

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DOUBLE REFUSE CAN HOLDER

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Original No. 3,479,047, dated Nov. 18, 1969, Ser. No. 734,058, June 3, 1968. Application for reissue Aug. 10, 1970, Ser. No. 62,732

Int. Cl. B62b *1/18, 1/26*

U.S. Cl. 280—47.19 11 Claims

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

ABSTRACT OF THE DISCLOSURE

A portable multiple refuse can holder of a generally wheelbarrow-like construction and having transversely hinged refuse can cover securing means latchable to prevent access by animals and accidental spillage of the contents of the refuse cans while transporting the cans by means of the holder.

Background of the invention

Portable multiple refuse can holders are well known in the art. These holders in general are of a wheelbarrow-like construction and comprise a tubular frame having a pair of wheels journaled on an axle on the forward end thereof and a pair of rearwardly facing handles at the rear end thereof. A pair of depending support elements is usually provided at the rear end of the holder. U.S. Patents, Nos. 3,111,333 and 3,379,451 to T. O. Marini et al. and No. 3,306,464 to J. W. Rogers illustrate representative examples of this type of prior art refuse can holder.

Refuse can holders of the type above described generally lack means for securing the tops of the refuse can thereon to prevent access by animals or the accidental spillage of the contents of the cans during the transportation by the holder. A prior art practice has been to attach flexible chains to the handles of the refuse can covers and to the frame of the portable refuse can holder. While this practice may prevent the misplacing of the covers, it is clearly ineffective in preventing the removal of the covers by animals or the accidental spillage of the contents of the refuse cans when jostled during their transporting. U.S. Patents Nos. 3,276,600 and 3,280,988 issued to H. W. Black and V. O. Bennett, respectively are illustrative of prior art holders with which this practice has been adopted.

Other prior art holders have provided means for individually securing the covers to the refuse cans carried by the holder as illustrated in U.S. Pats. Nos. 3,235,213 to W. E. Hall and 3,292,795 to J. W. Chappell. The portable refuse can holders of this type in general comprise an upstanding member at the front and rear of the holder and rather intricate mechanical means, often spring biased, for hinging a rigid arm thereto along the axis of the holder. The rigid arms are customarily secured to the handle of the refuse can cover. Such refuse can cover securing means have a disadvantage in that the individual refuse cans cannot be removed from the holder with their covers in place without first detaching the cover from the rigid arm. This procedure may be quite time consuming and may also require the use of hand tools. Since it may be desirable to use one of the refuse cans from time to time in a location separate from the holder, this disadvantage often constitutes a serious inconvenience.

It is accordingly an object of the present invention

to provide a novel, multiple unit, portable refuse can holder in which the covers may be retained on the refuse cans to prevent access by dogs and other animals, and to prevent the accidental spillage of the contents thereof while transporting the cans in the holder.

Another object is to provide a novel, multiple unit portable refuse can holder in which an individual refuse can may be selectively removed from the holder with its cover in place thereon.

Yet another object is to provide a novel portable holder for multiple refuse cans having a simplified, lightweight and sturdy construction.

A still further object of the present invention is to provide a novel portable double refuse can holder so designed and constructed that it can be packaged and sold in knockdown form and quickly and easily assembled by the purchaser.

These and other objects and advantages of the present invention will become apparent from the appended claims and upon a reading of the following detailed description in conjunction with the drawings.

The drawings

FIGURE 1 is a pictorial view of the portable refuse can holder of the present invention;

FIGURE 2 is a side elevation of the portable refuse can holder;

FIGURE 3 is a plan view of the portable refuse can holder; and

FIGURE 4 is an end elevation of the portable refuse can holder.

Detailed description

Referring to the figures, where like portions of the portable double refuse can holder of the present invention are given like numerical designations to facilitate a description thereof, a centrally located longitudinal strap member **10** having a horizontal portion **12** and upstanding legs **14** and **16** is provided to serve as the basic frame member. The legs **14** and **16** are of substantially the same length and diverge slightly at their upper ends **18**, as illustrated best in FIGURE 2, to substantially conform to the truncated cone configuration of the conventional refuse can.

A further upstanding strap member **20**, located substantially midway between the legs **14** and **16** and coplanar therewith, is suitably secured, such as by welding to the upper surface **22** of the bottom or horizontal portion **12** of the longitudinal member **10**. The upstanding member **20** is disposed substantially perpendicular to the surface **22** of strap member **10** and is of a length sufficient for its upper end **24** to rise vertically substantially the same distance above the horizontal portion **12** as the ends **18** of the legs **14** and **16** of the longitudinal strap member **10**.

A pair of substantially identical U-shaped transverse strap members **26** and **28** are disposed with their horizontal or bottom portions **35** immediately adjacent the bottom portion **12** of the longitudinal strap member **10** and respectively equidistant between the leg **14** and the upstanding member **20** and between the upstanding member **20** and the leg **16** in a plane normal to the plane of the longitudinal strap member.

The transverse strap members **26** and **28** may be secured to the longitudinal strap member **10** at the point where they cross as by means of a bolt **30** inserted through aligned apertures into threaded engagement with a suitable nut **32**. The transverse members **26** and **28** may be permanently deformed at this juncture so that the upper surfaces **34** thereof are substantially coplanar with the upper surface **22** of the horizontal portion **12** of the longitudinal strap member **10**. These surfaces **22** and

constitute the support for the bottom of the refuse
n.
Both of the transverse members **26** and **28** are sub-
ıntially U-shaped in configuration with the bottom
ırtion **35** being substantially one-half the length of the
ıttom portion **12** of the longitudinal member **10** and
tending equidistant on opposite sides thereof. The up-
ınding legs **37** of the transverse members **26** and **28**
e substantially the same length and are approximately
ıe-third longer than the legs **14** and **16** of the longi-
dinal member **10**. Like the legs **14** and **16** of the longi-
dinal member **10**, the legs **37** of the transverse mem-
rs **26** and **28** may diverge slightly so as to conform to
e shape of the conventional refuse can.
A horizontally disposed, endless strap member **36** in
e form of a circular ring is secured to the end **18** of
e leg **14** of the longitudinal member **10**, the end **24** of
e upstanding **20**, and the legs **37** of the transverse
ember **26** at substantially the same height above the
rfaces **22** and **34**. The points at which the ring member
is secured to the longitudinal and transverse members
and **26** are spaced approximately 90°. The means of
tachment may be varied as desired, but may convenient-
take the form of bolts **40** extending through aligned
ertures into threaded engagement with suitable nuts **12**.
ıe diameter of the ring member **36** is, of course se-
:ted to accommodate the conventional refuse can at that
ight above the surfaces **22** and **34**.
A second endless member **44** identical in every re-
ect to the ring member **36** is secured to the end **18**
the leg **16**, the end **24** of the upstanding member **20**,
d the legs **37** of the transverse member **28** by means
threaded bolts **40** and nuts **42** similar to those earlier
scribed, or the same as, where appropriate.
The ring members **36** and **44** are thus disposed sub-
ıntially coplanar and are secured fore and aft to the
ds **18** of the legs **14** and **16** of the longitudinal strap
ember **10**, to each other, and to the end **24** of the up-
ınding member **20** in the center of the holder, and to
e legs **37** of the transverse members **26** and **28** on
ıth sides thereof. The ring members **36** and **44** need not
mutually secured to the upstanding strap member **20**
t some means must be provided to prevent longitudi-
l separation of the ring members **36** and **44**.
Additional rigidity is provided by use of a diagonal brace
secured to the point at which the ring member **44** is
:ured to the legs **37** of the transverse member **28** by
e same bolts **40** and **42** and to the lower end **48** of the
gs **37** of the transverse member **26** by other bolts **50**
d nuts **52** of like character.
An axle bar **54** spans the bottom portion **35** of the
rward transverse member **26** in an underyling relation-
ip thereto. The axle bar **54** may be welded or other-
se secured to the horizontal portion **35** in any conven-
ınal manner with the ends **56** thereof projecting out-
ırdly beyond the legs **27** of the transverse member **26**.
wheel **58** is freely journaled on each of the outwardly
tending ends **56** of the axle bar **54** to support the lower
ıttom portion **35** of the transverse strap member **26**,
a spaced relation to the surface upon which the holder
sts.
A support **58** comprises a surface contacting portion **60**
ıd a pair of lightly diverging legs **62** is secured to the
ıttom portion **35** of the transverse strap member **28**
any conventional manner as by welding. The legs **62**
the support **58** are substantially equal in length to
e radius of the wheels **58** journaled on the ends **56** of
e axle bar **54** so that the plane of the refuse can sup-
ırting surfaces **22** and **34** of the longitudinal and trans-
rse strap members **10** and **26** and **28** is substantially
ırallel to the surface upon which the holder rests.
The bottom portion **68** of an elongated handle **70**
secured to the horizontal portion **12** of the longitudinal
ap member **10** in proximity to the leg **16** by means
a pair of bolts **64** extending through aligned apertures

into threaded engagement with suitable nuts **66**. The han-
dle **70** includes an upstanding portion **72** which extends
upwardly in the plane of the longitudinal strap member **10**.
The upstanding portion **72** of the handle **70** may diverge
slightly from the leg **16** of the longitudinal member **10**
and the upper end **74** thereof may be bent rearwardly to
provide a suitable hand grip for lifting the support **58**
clear of the surface upon which the holder rests so that
the holder may be rolled on the wheels **58**. A cap **76** of
rubber or plastic material may be optionally provided
on the extreme end **76** of the handle **70**.
The handle **70** is secured to the ring member **44** by
means of a curved brace **77** welded or otherwise secured
at its extremities to spaced points on the ring mem-
ber **44**. The brace **77** may be apertured to receive a
bolt **79** inserted through an aligned aperture in the up-
standing portion **72** of the handle **70** into threaded en-
gagement with a suitable nut **81**.
A strap member **80** is secured to the upper extremi-
ties **82** of the upstanding portions **37** of the transverse
members **26** and **28** along one side of the holder as by
means of bolts **84** extending through aligned apertures
into threaded engagement with suitable nuts **86**.
A vertically adjustable strap member **88** is secured to
the strap member **80** substantially half way between the
extremities **82** of the legs **37** of the transverse members
26 and **28** at a substantially 90° angle. The vertical ad-
justment of the member **88** may be accomplished by
means of a plurality of vertically spaced apertures **90**,
one of which may be moved into alignment with an
aperture **92** in the member **80** for the insertion of a bolt
94 therethrough into threaded engagement with a nut
(not shown). The height of the upper end **96** of the
member **88** may thus be readily adjusted with respect to
the member **80**. A suitable eye **98** may be secured in
any conventional manner as by welding to the upper ex-
tremity **96** of the vertically adjustable member **88**.
A pair of vertically adjustable extensions **100** are se-
cured to the upper extremities **102** of the legs **37** of the
transverse strap members **26** and **28** on the other side
of the holder. The extensions **100** may be provided with
a plurality of vertically spaced apertures **104** for selec-
tive alignment with an aperture **106** in the extremities
102 of the legs **37** so that the height of the upper ex-
tremities **108** of the extensions **100** may be readily ad-
justed with respect to the holder. The upper extremities
108 of the extensions **100** may conveniently be twisted
90° so that the axis of an aperture **110** therein lies sub-
stantially parallel to the longitudinal axis of the holder.
A refuse can cover securing yoke **112** comprises a pair
of endless strap members **114** in the form of circles sub-
stantially centered vertically over the bolts **30** used to
secure the longitudinal strap member **10** to the transverse
strap members **26** and **28**. Each of the ring members **114**
is approximately one half the size of the ring members
36 and **44** in diameter.
Both of the ring members **114** are secured in a con-
ventional manner, as by welding, to a transverse mem-
ber **115**. Each of the members **115** is hingedly secured
to the upper extremity **108** of one of the extensions **100**
of the transverse strap members **26** and **28** by means of
a hinge bolt **116** extending through an aligned aperture
therein.
A U-shaped member **18** comprising a longitudinally
extending portion **120** and transversely extending legs
122 is disposed substantially coplanar with the ring mem-
bers **114**. The ends **124** of the legs **122** of the member
118 are secured to the ring member **114** in a conven-
tional manner, as by welding.
A hasp **126** is secured, as by welding, to depend from
the longitudinally extending portion **120** of the member
118. The hasp **126** has an elongated aperture **128** which
cooperates in a conventional manner with the eye **98** of
the adjustable strap member **88** to latch the refuse can
cover securing yoke **112** in a closed position. A bolt or

padlock (not shown) may be inserted over the hasp **126** and through the eye **98** if additional security is desired.

From the foregoing description, it is clear that the double refuse holder of the present invention is extremely simple, lightweight and durable in its construction while providing security and easy transportation of the refuse cans. It is to be understood that the refuse can cover securing yoke may be hinged from the side of the holder opposite to that illustrated, and that the present invention may be embodied in other specific forms without departing from the spirit of the invention or essential characteristics thereof. The present embodiment is, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description.

What is claimed is:

1. A portable refuse can holder comprising:

a longitudinal U-shaped member having a substantially horizontal portion and upstanding legs of equal length;

a pair of longitudinally spaced transverse U-shaped members each having a substantially horizontal portion and upstanding legs of equal length, the horizontal portion of each of said transverse members being mounted near its midpoint to the horizontal portion of said longitudinal member, the horizontal portions of said transverse members being substantially coplanar with and disposed substantially normal to the horizontal portion of said longitudinal member to support a refuse can, the legs of said transverse members extending upwardly at least as high as the legs of said longitudinal member;

a pair of endless ring members each secured to one of the legs of [sad] *said* longitudinal member and the legs of one of said transverse members;

means for maintaining said ring members in a longitudinally fixed relation to each other;

wheel means located under one of said transverse members;

ground engaging support means mounted at the other one of said transverse members;

a handle mounted to the horizontal portion of said longitudinal member at the end thereof adjacent said other transverse member, said handle extending upwardly and outwardly from said holder along the longitudinal axis thereof;

means to limit the longitudinal separation of said handle from said ring members;

hinge means mounted on the legs of said transverse members on one side of said longitudinal member;

a unitary member connected to said hinge means, said unitary member having surfaces adapted to maintain covers on the refuse cans when said unitary member is *in a* closed position and to allow removal of the refuse can from the holder when said unitary member is in an open position; and

latch means supported by the leg of at least one of said transverse members on the other side of said longitudinal member for maintaining said unitary member in a closed position.

2. The holder of claim **1** including an upstanding *member* mounted on the horizontal portion of said longitudinal member near the midpoint thereof and extending upwardly into engagement with said ring member maintaining means.

3. The holder of claim **1** wherein said unitary member includes a pair of endless substantially circular members and means supporting said circular members substantially coaxial with said ring members when said unitary member is in a closed position.

4. The holder of claim **3** wherein said circular members are disposed substantially coplanar and have a diameter substantially less than the diameter of said *ring* members; and

wherein said ring member maintaining means includ an upstanding member mounted on the horizont portion of said longitudinal member near the mi point thereof.

5. The holder of claim **1** including a diagonal bra secured to one leg of said other transverse member a first point and to the leg of said one transverse mer ber on the same side of said longitudinal member as sa one leg at a second point, said first and second poir being vertically spaced with respect to the horizont portion of said longitudinal member.

6. The holder of claim **1** wherein said latch means i cludes:

an elongated member secured to the upper extremiti of the legs of said transverse members on said oth side of said longitudinal member;

means secured to said elongated member includi an eye; and

means including a hasp secured to said unitary mer ber, said hasp being adapted to engage said e when said unitary member is in a closed positio

7. The holder of claim **6** wherein the spacing betwe said eye and said elongated member is adjustable, a wherein said unitary member is connected to the upp extremities of the legs of said transverse members b way of adjustable extensions whereby the vertical spa ing between said circular members and the bottoms of sa longitudinal and transverse members may be adjusted adapt the holder to refuse cans of different heights.

8. The holder of claim **7** including a diagonal bra secured to one leg of said other transverse member at first point and to the leg of said one transverse memb on the same side of said longitudinal member as sa one leg at a second point, said first and second poin being vertically spaced with respect to the horizont portion of said longitudinal member, and wherein sa unitary member includes two members each connected one end thereof to said hinge means and at the oth end thereof to one of said circular members, and a U shaped member having a horizontal portion and legs equal length, each of said legs of said last mentioned U shaped member being secured to one of said circul members approximately 180° around the circumferen thereof from said hinge means connected member to sa last mentioned U-shaped member being disposed substa tially coplanar with said circular members, said hasp b ing secured to the horizontal portion of said last me tioned U-shaped member.

9. A portable refuse can holder comprising:

a longitudinal U-shaped member having a substantiall horizontal portion and upstanding legs;

a pair of longitudinally spaced transverse U-shape members each having a substanitally horizontal po tion and upstanding legs, the horizontal portion each of said transverse members being mounted nea its midpoint to the horizontal portion of said long tudinal member, the horizontal portions of said tran verse members being substantially coplanar with an disposed substantially normal to the horizontal po tion of said longitudinal member to support a refus can;

a pair of ring members each secured to one of the leg of said longitudinal member and the legs of on of said transverse members;

means for maintaining said ring members in a longitu dinally fixed relation to each other;

wheel means located adjacent one of said transvers members;

ground engaging support means mounted at the othe one of said transverse members;

a handle mounted to the horizontal portion of sai longitudinal member at the end thereof adjacent sai other transverse member, said handle extending up wardly and outwardly from said holder along th longitudinal axis thereof;

means to limit the longitudinal separation of said handle from said ring members;

hinge means mounted on the legs of said transverse members on one side of said longitudinal member;

a unitary member connected to said hinge means, said unitary member having surfaces adapted to maintain covers on the refuse cans when said unitary member is in a closed position and to allow removal of the refuse can from the holder when said unitary member is in an open position; and

latch means supported by the leg of at least one of said transverse members on the other side of said longitudinal member for maintaining said unitary member in a closed position.

10. A portable refuse can holder comprising:

a longitudinal U-shaped member having a substantially horizontal portion and upstanding legs;

a pair of longitudinally spaced transverse U-shaped members each having a substantially horizontal portion and upstanding legs, the horizontal portion of each of said transverse members being mounted near its mid-point to the horizontal portion of said longitudinal member, the horizontal portions of said transverse members being substantially coplanar with and disposed substantially normal to the horizontal portion of said longitudinal member to support a refuse can, the legs of said transverse members extending upwardly at least as high as the legs of said longitudinal member;

a pair of ring members each secured to one of the legs of said longitudinal member and the legs of one of said transverse members;

means for maintaining said ring members in a longitudinally fixed relation to each other;

ground engaging wheel means;

a handle mounted to the horizontal portion of said longitudinal member at the end thereof adjacent said other transverse member, said handle extending upwardly and outwardly from said holder along the lonigtudinal axis thereof;

hinge means mounted on the legs of said transverse members on one side of said longitudinal member;

a unitary member connected to said hinge means, said unitary member having surfaces adapted to maintain covers on the refuse cans when said unitary member is in a closed position and to allow removal of the refuse can from the holder when said unitary member is in an open position; and

latch means for maintaining said unitary member in a closed position.

11. A portable refuse can holder comprising:

a longitudinal U-shaped member having a substantially horizontal portion and upstanding legs;

a pair of longitudinally spaced transverse U-shaped members each having a substantially horizontal portion and upstanding legs, the horizontal portion of each of said transverse members being mounted near its mid-point to the horizontal portion of said longitudinal member, the horizontal portions of said transverse members being substantially coplanar with and disposed substantially normal to the horizontal portion of said longitudinal member to support a refuse can;

a pair of ring members each secured to one of the legs of said longitudinal member and the legs of one of said transverse members;

means for maintaining said ring members in a longitudinally fixed relation to each other;

ground engaging wheel means;

a handle mounted to the horizontal portion of said longitudinal member at the end thereof adjacent said other transverse member, said handle extending upwardly and outwardly from said holder along the longitudinal axis thereof;

hinge means mounted on the legs of said transverse members on one side of said longitudinal member;

a unitary member connected to said hinge means, said unitary member having surfaces adapted to maintain covers on the refuse cans when said unitary member is in a closed position and to allow removal of the refuse can from the holder when said unitary member is in an open position; and

latch means on the other side of said longitudinal member for maintaining said unitary member in a closed position.

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U.S. Cl. X.R.

211—71; 248—129