Feb. 10, 1970 K. N. LINK 3,494,478

GARBAGE CAN HOLDING RACK

Filed Nov. 30, 1967

FIG. 1

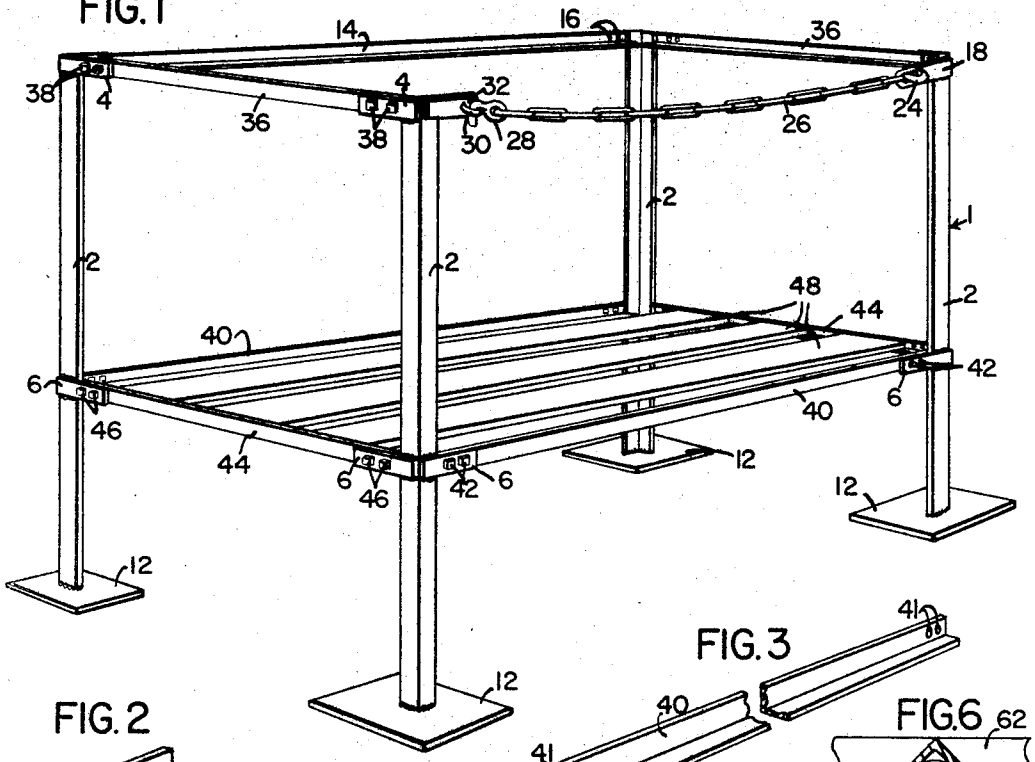


FIG. 3

FIG. 6

FIG. 2

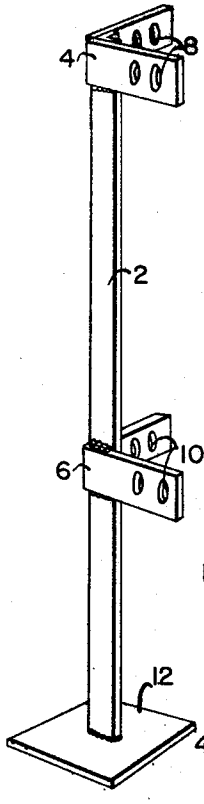


FIG. 4

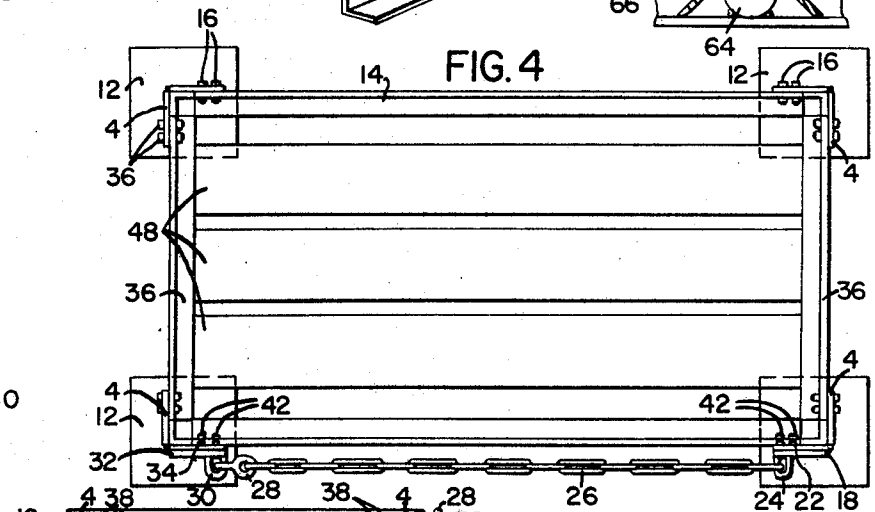
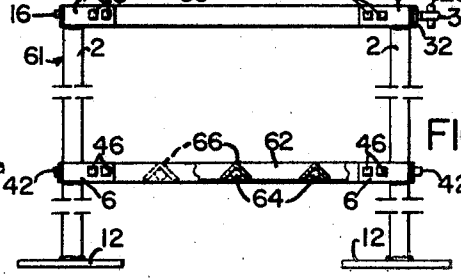


FIG. 5



KENNETH N. LINK
INVENTOR.

BY

Wayland D. Keith
HIS AGENT

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GARBAGE CAN HOLDING RACK

Kenneth N. Link, P.O. Box 852,
Stamford, Tex. 79553

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ABSTRACT OF THE DISCLOSURE

A knock-down rack for garbage cans and the like, which is constructed primarily of angle members secured together by bolts and the like, to be readily disassembled and requiring a minimum of space, for shipment or storage, and readily reassembled for use. A removable rack floor is positioned well above ground level for convenient use and to protect the cans from deterioration due to rust and corrosion which would result from resting on the ground. Retainer means is provided to maintain the cans on the rack.

This invention relates to knock-down racks for garbage cans and the like, which rack is constructed primarily of angle members the flanges of which are secured together by bolts so as to be readily disassembled and reassembled.

Various garbage can racks have been proposed heretofore, but the construction of these, for the most part, did not lend to ready disassembly and reassembly.

An object of this invention is to provide a heavy duty rack for garbage cans and the like which is of knock-down construction, so as to be readily disassembled to require a minimum of space for shipment or storage and which is readily reassembled with a minimum of tools.

Another object of the invention is to provide a garbage can rack which supports the cans well above the ground so they will not be subject to deterioration because of contact with the ground, and to support the cans at a convenient level for use both by the householder and for emptying by the garbage haulers.

Still another object of the invention is to provide a garbage and trash can rack which will retain the cans in place but which will also allow for quick removal and replacement of the cans on the rack.

Another object of the invention is to provide a garbage can rack whereby neither the rack or the cans thereon can be readily overturned by dogs, severe winds or by careless handling.

Another object of the invention is to provide a garbage can rack, the can supporting floor of which supports the cans well above the ground and which is so constructed as to turn rain, snow, ice and the like, thereby insuring longer life to the rack.

Another object of the invention is to provide for each leg of a garbage can rack a foot-plate which increases the stability of the rack and prevents the legs from sinking into the ground during wet weather, if the rack must rest on the ground.

With more detailed reference to the invention, reference is to be had to the accompanying drawing in which like reference characters designate like parts in the several views thereof in which:

FIG. 1 is a perspective view of the garbage can rack;

FIG. 2 is a perspective view of one angle leg of the frame of the rack showing the apertured flanges welded thereto and showing a foot-plate welded thereto;

FIG. 3 is a perspective view of a side frame angle member which is apertured to be complementally secured to the flanges of the leg angles;

FIG. 4 is a top plan view of the assembled rack, as shown in FIG. 1;

FIG. 5 is an end elevational view with parts being broken away, and shown in section and with parts shortened to bring out the details of construction of a modified form of the invention; and

FIG. 6 is an enlarged, fragmentary detail view, partly in section, of the angle members, one of which forms the rack floor which supports the garbage cans, in the form of the invention as shown in FIG. 5.

With more detailed reference to the drawing the numeral **1** designates generally a garbage can rack, the legs of which are formed of upright angle members **2**. Each web of each angle member **2** has outwardly extending apertured bars **4** and **6** welded thereto at right angles, thereto, with a bar **4** being near the top of each leg and a bar **6** being welded in like manner to each leg **2** intermediate the length thereof, as will best be seen in FIG. 1.

Each bar **4** has apertures **8** formed therein and each bar **6** has apertures **10** formed therein, to receive bolts therethrough, as will be brought out more fully hereinafter.

Each angle member **2**, which forms a leg, has a foot plate **12** secured to the lower end thereof, as by welding, to provide stability to the rack and prevent the legs from sinking into the ground. The legs **2**, the bars **4** and **6** and the foot plates **12** constitute an integral unit and each of the leg members and the bars **4** and **6** are identical, therefore a minimum of direction is required to instruct a novice in the art of assembly of the various component parts. A longitudinal, apertured side angle member **14** extends between adjacent bars **4** on one side of the rack near the upper end thereof between two side legs, and secured thereto by a bolt **16**.

The chain attachment member **18** is secured, by bolts **22**, to one of the outwardy extending apertured bars **4** on the upper longitudinal side of rack **1**, which chain attachment member **18** has a loop **24** thereon to which a chain **26** is attached. The chain **26** has fastening means or a hook **28** on the other end thereof to engage a loop **30** on an attachment member **32** which is secured, by bolts **34**, to one of the outwardly extending apertured bars **4** on the same side of the frame as the chain attachment member **18**, but on the opposite leg **2** thereof.

Transverse end members **36** are secured to adjacent outwardly extending, apertured bars **4** on the upper ends of legs **2**, by bolts **38**, so as to brace the legs **2** against lateral movement.

Side angle members **40**, having apertures **41** formed therein, are secured between bars **6** on each longitudinal side of the garbage can rack **1**, intermediate the length of the legs **2** thereof, as will best be seen in FIGS. 1 and 4. Transverse angle members **44** are secured, by bolts **46**, to bars **6**, intermediate the length of legs **2** and in the same plane as longitudinal angle members **40**, which angle members **40** and **44** each have the lower web of the leg thereof inturned. The transverse angle members **44** are adapted to receive longitudinal support members **48**, such as boards, on which to support one or more garbage cans a spaced distance above the terrain, within the confines of transverse end members **36**, longitudinal angle member **14** and chain **26**.

ASSEMBLY

The present garbage can rack is constructed primarily of a plurality of members, corresponding members being identical, with the exception of the chain attachment member, so that the garbage can rack can be shipped or dispensed in a relatively small package, and be reassembled by anyone with less than average mechanical skill, as all four legs **2** are identical in construction, as are the longitudinal, apertured side angle members **14** and **40**, and the transverse end members **36** and **44**. Likewise, the longitudinal support members or boards **48** are

identical and will fit onto the transverse end members which have inturned angles on the lower side so, by the use of a standard bolt, such as indicated at **16**, **36**, **42** and **46**, these elements may be readily put together in a minimum of time and with a minimum of instructions, and since only two elements are loose, namely the chain attachment member **18**, to which the chain **26** is attached, and the attachment member **32**, having a loop thereon, these are bolted in place by bolts **22** and **34**, the garbage can rack is then ready for use.

MODIFIED FORM OF INVENTION

A modified form of the invention is shown in FIGS. 5 and 6, which form of the invention is identical in all respects with the above described form of the inventiion, except boards **48** may be dispensed with and the garbage can rack, indicated at **61**, may have end members **62** thereon intermediate the length of the legs **2** to which end members **62** are secured.

Each end member **62** has spaced apart bosses **64**, which bosses are lengths of round bars, as shown in FIG. 5, which are longitudinally aligned and welded to the upper side of the inturned leg of each angle member **62**, each of which bosses are approximately of a length of the width of the angle end members. These bosses **64** form stabilizing elements for support angles **66** when these bosses are in longitudinal alignment. Each angle **66** is detachably fitted over the aligned bosses **64** with the apex thereof in the uppermost position, as indicated in FIGS. 5 and 6 to support one or more garbage cans thereon.

Having thus clearly shown and described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A garbage can holding rack, which rack comprises;

(a) four upright leg members, which members are substantially identical in construction,

(1) a pair of outwardly extending, apertured bars secured near the upper end of each said leg member and having an angular divergence between said bars of approxiamtely a right angle,

(2) a second pair of outwardly extending, apertured bars secured to each upright leg member intermediate the length thereof, each pair of bars being approximately the same distance from the lower ends of said legs, and having an angular divergence therebetween of approximately a right angle, and lying in the respective upright planes as said first mentioned bars,

(b) longitudinal and transverse members detachably secured between said outwardly extending, apertured bars which are secured near the upper ends of the respective legs to form a rectangle,

(c) further longitudinal and transverse angle members, each having inturned legs which are detachably secured to said outwardly extending, apertured bars which are secured intermediate the length of each said leg member so as to form a rectangular support frame,

(d) each said further transverse member having spaced apart bosses secured to the upper faces of said inturned legs of said transverse angle members,

(1) each boss on one said further transverse member being in aligned relation with a complementary boss on the other of said further transverse members,

(e) longitudinal angle support members extending between said transverse members, which angle support members are seated on said longitudinally aligned bosses on said inturned legs of said further transverse members so as to be detachably supported with the apex of said longitudinal angle support members being in upright position so as to support at least one garbage can thereon a spaced distance from the lower end of said legs.

2. A garbage can holding rack as defined in claim **1**; wherein

(a) said bosses, secured to the inturned leg of said angle members are lengths of round bars welded to the upper face of said inturned legs of said angle members.

References Cited

UNITED STATES PATENTS

2,760,650	8/1956	Franks	211—148
2,895,186	7/1959	Franks	211—148 X
2,923,416	2/1960	Vogel	211—71 X
2,962,170	11/1960	Best	211—182
3,127,995	4/1964	Mosinski	211—182 X
3,129,965	4/1964	Stark	211—182 X
3,217,449	11/1965	Levere	211—182 X
3,229,790	1/1966	Shayne	211—182 X
3,407,941	10/1968	Schmidt	211—177

DAVID H. BROWN, Primary Examiner

U.S. Cl. X.R.

211—177, 182