Oct. 18, 1966 T. D. ALISSANDRATOS 3,279,619

MULTIPLE REFUSE CAN SUPPORTS

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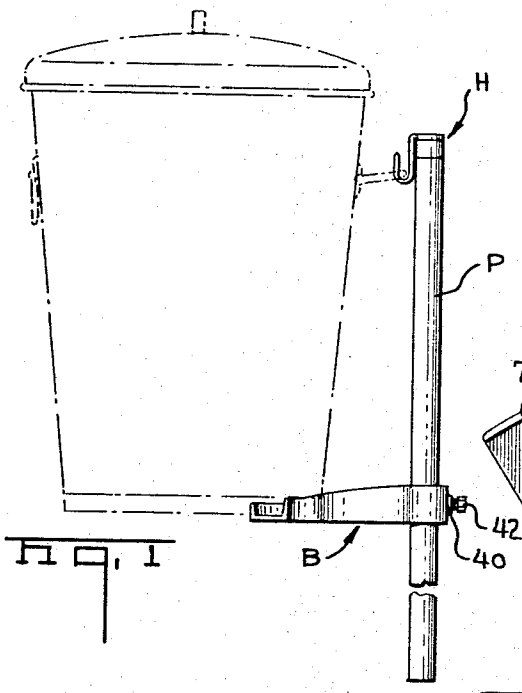


Fig. 1

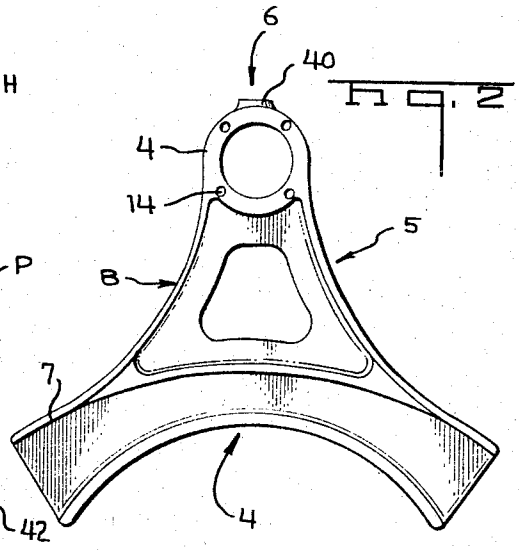


Fig. 2

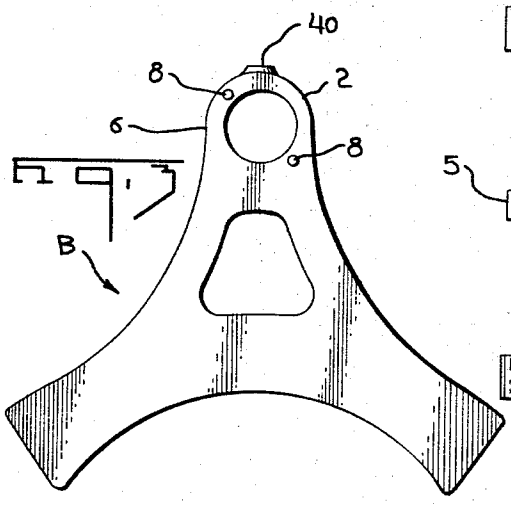


Fig. 3

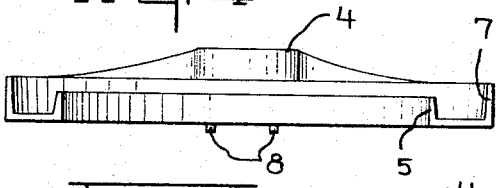


Fig. 4

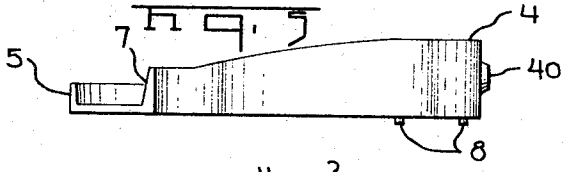


Fig. 5

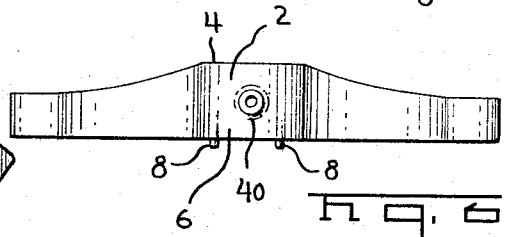


Fig. 6

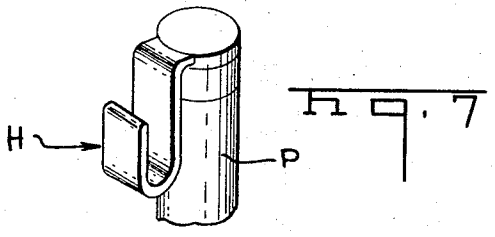


Fig. 7

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Fig. 8

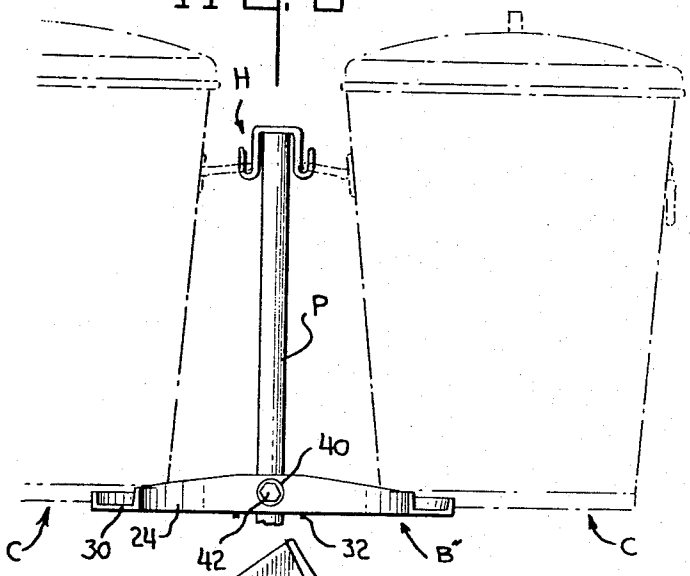


Fig. 12

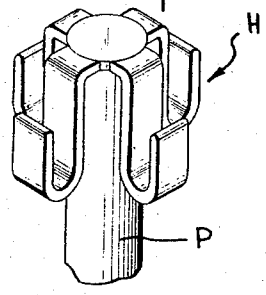


Fig. 9

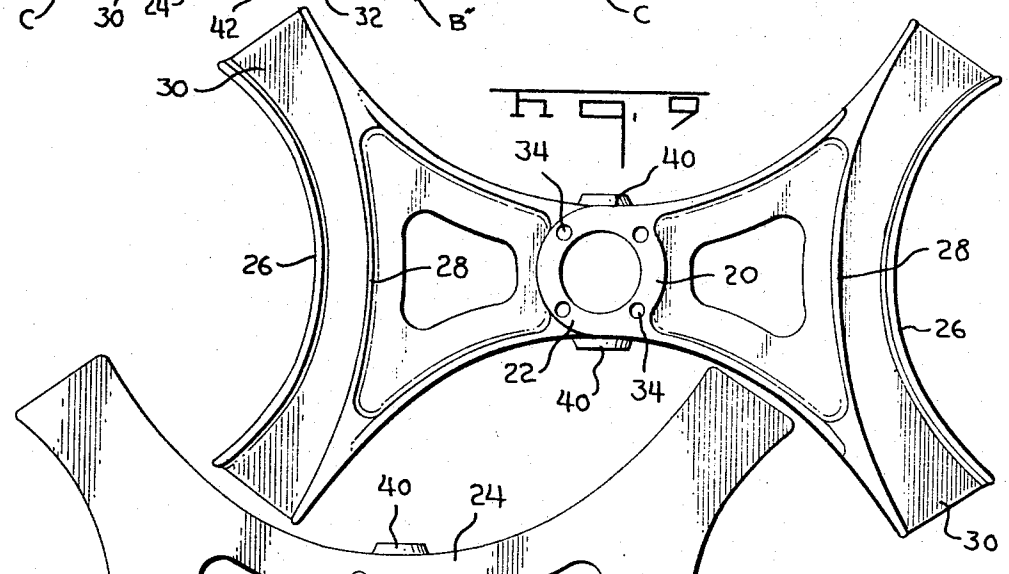
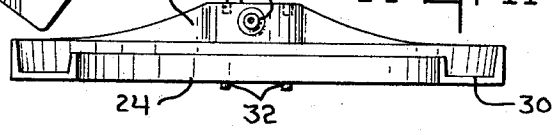


Fig. 10

Fig. 11



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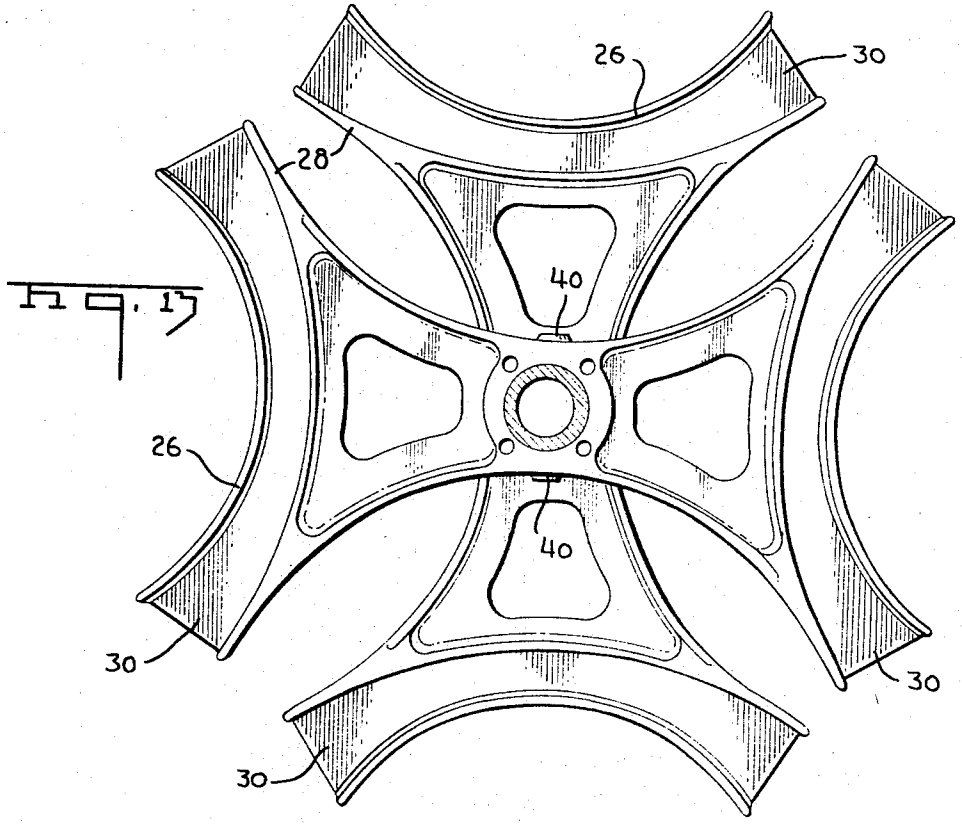


Fig. 13

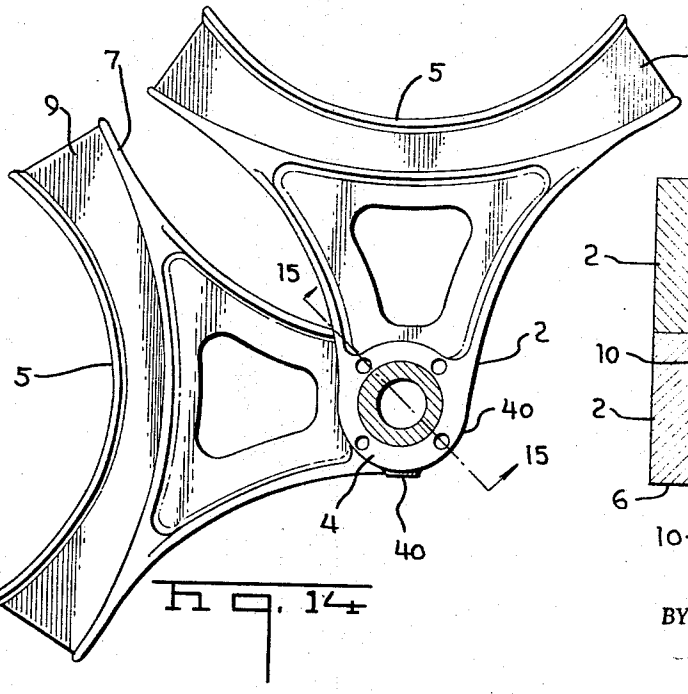


Fig. 14

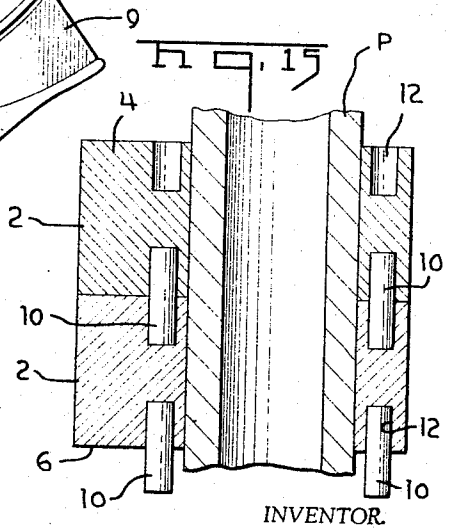


Fig. 15

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United States Patent Office 3,279,619 Patented Oct. 18, 1966

3,279,619

MULTIPLE REFUSE CAN SUPPORTS

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Filed May 3, 1965, Ser. No. 452,509
8 Claims. (Cl. 211—71)

This invention relates to supports for containers such as trash cans, garbage cans, and the like and constitutes an improvement over the support disclosed in my U.S. patent application, Serial No. 217,006, filed August 15, 1962, and issued as Patent No. 3,173,547 on March 16, 1965.

It is an object of this invention to provide a universal support for cans or drums which can be made to support a single can or may be used in multiple to support a plurality of cans of the same or different length and/or diameter.

It is a further object of the invention to provide a universally adjustable support as aforesaid for supporting one or more cans off the ground in such manner as to prevent the wind or animals from upsetting the cans or scattering the contents.

It is a further object of this invention to provide in association with the supporting post a can supporting unit as aforesaid which may be combined and used in various combinations and arrangements as to accommodate and balance one or more cans as far as possible to avoid excessive tipping forces on the support post.

These and other objects will become manifest from a reading of the following description considered in connection with the accompanying drawings, wherein:

FIG. 1 illustrates the support of this invention used with a single can;

FIG. 2 is a plan view of the support of FIG. 1;

FIG. 3 is a bottom view;

FIGS. 4, 5 and 6 are views of the support taken in the direction of arrows **4**, **5**, **6** respectively of FIG. 2;

FIG. 7 is a view of the handle bracket shown in FIG. 1;

FIG. 8 illustrates a modification of this invention;

FIG. 9 is a plan view of the support of FIG. 8;

FIG. 10 is a bottom view thereof;

FIG. 11 is an elevational view of FIG. 9;

FIG. 12 is a handle bracket for use with four or less cans;

FIG. 13 is a plan view showing the device of FIG. 9;

FIG. 14 is a plan view of the device of FIG. 2 used in multiple; and

FIG. 15 is a section taken taken along the line **15—15** of FIG. 14.

In FIG. 1 is shown the bracket B of this invention mounted on post P supporting a can C shown in dot dash outline. A handle engaging bracket H is mounted on the post and is provided with a hook for engaging a handle of the supported can.

The bracket comprises a hub portion **2** having longitudinally spaced faces **4** and **6** and a groove portion formed of spaced arcuate rims or flanges **5** and **7** of different radii connected by a bottom **9** integral therewith to define a shelf or bracket having a U-shaped groove of varying width therealong. Extending from the bottom face **6** is a pair of diametrically arranged projections **8** shown in FIGS. 2–6 as pins formed integral with the hub. In FIGS. 14, 15 the pins **10** are formed separately and inserted in blind openings or sockets **12** so that the brackets may be stacked and used in multiple. Two pairs of bores, shown as dead end cylindrical openings **14**, are formed in the top face **4** and are arranged along axes which are at right angles. One pair of openings **14** is aligned with the pair of pins **8** on the other face. When the brackets are stacked on the post for use with cans of similar height the pins **8** on the upper bracket fit in one pair of openings **14** of the lower bracket to align and maintain the brackets in the selected alignment. That is, when the pins are in one pair of openings the adjacent brackets are at right angles to each other and when the pins are in the other pair of openings the brackets are aligned along a diameter. By this arrangement four brackets at right angles could be used as well as three or two brackets at right angles or two brackets on a diameter can be used. This flexibility of arrangement allows for the use of a small inventory of parts as well as economy of replacement in the event of breakage.

In FIG. 8 is shown a modification of the bracket of this invention supporting a pair of cans. The bracket B' is mounted on the post P and supports two cans C on diametrically opposite sides of the post. A handle engaging bracket H' is mounted on the post and is provided with a pair of hooks for engaging the handles of the cans. The bracket comprises a hub portion **20** having longitudinally spaced faces **22** and **24** and grooved portions formed of spaced arcuate flanges **26** and **28** connected by a bottom portion **30** integral therewith to define U-shaped grooves of varying width. Extending from face **24** is a pair of diametrically arranged projections **32** shown as pins formed integral with the hub and in face **22** are pairs of depressions shown as blind holes **34** with one pair of holes aligned with the pins on the opposite face and the other pair of holes on an axis at right angles to the first pair of holes.

The bracket B' may be used as a single bracket as illustrated in FIG. 8 or may be stacked with another bracket for use in multiple as shown in plan view in FIG. 13. When used in multiple the pins of the upper bracket fit in a pair of openings in the lower bracket to maintain the proper alignment and to thereby avoid interference of the cans with each other.

In the modification shown in FIGS. 14, 15, the holes are arranged so that they are in alignment when the brackets are arranged as in FIG. 14 and are also in alignment when the brackets are arranged on a diameter.

Each of the hubs in the several species is provided with a boss **40** provided with a threaded opening for a threaded fastener **42**. The end of the fastener is pressed into contact with the post P to support the single bracket on the post and to support the lowermost bracket when the brackets are used in multiple. Of course, each bracket of the multiple arrangement could be supplied with individual fasteners if desired but this is not necessary.

What I claim is:

1. A support bracket comprising a hub and a supporting shelf extending laterally therefrom, said hub having longitudinally spaced faces with at least one projection extending from one face and one socket of a shape corresponding to the projection in the opposite face.

2. A support bracket comprising a hub and supporting shelves extending laterally therefrom and on diametrically opposite sides thereof, said hub having longitudinally spaced faces with at least one projection extending from one face and at least one socket of a shape to receive the projection in the opposite face.

3. A support bracket as defined in claim **2**, wherein each shelf comprises spaced arcuate flanges of different radii connected by a bottom integral therewith to define a U-shaped groove which is wider at the ends than between the ends.

4. A support bracket comprising a hub and a supporting shelf extending laterally therefrom, said hub having longitudinally spaced faces with at least one projection extending from one face and at least a pair of sockets of a shape to receive the projections in the opposite face.

5. A support bracket comprising a hub and a supporting shelf extending laterally therefrom, said hub having longitudinally spaced faces with a pair of projections ex-

tending from one face and two pairs of sockets of a shape to receive similar shaped projections of a similar bracket in the opposite face, the pair of projections being aligned with one pair of sockets and the pairs of sockets being on axes which are normal to each other.

6. A support bracket comprising a hub and a supporting shelf extending laterally therefrom said hub having longitudinally spaced faces, each face having two pairs of blind holes therein with the axis of one pair at right angles to the axis of the other pair, and the holes in one face aligned with the holes on the opposite face.

7. A support for containers comprising a post and support brackets mounted one above the other on the post, each bracket comprising a hub having longitudinally spaced faces with a projection extending from one face and a socket in the opposite face, the projection of one bracket extending into the socket of the adjacent bracket.

8. A support for containers comprising a post and at least two brackets mounted one above the other on the post, each bracket comprising a hub having longitudinally spaced faces with a pair of projections extending from

one face and at least two pairs of sockets in the opposite face, the projections of one bracket extending into a pair of sockets of the adjacent bracket and the pair of sockets being on axes which are normal to each other.

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CLAUDE A. LE ROY, *Primary Examiner.*