Nov. 29, 1949 J. F. DAVENPORT 2,489,562

WASTE DISPOSAL DEVICE

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FIG. 1

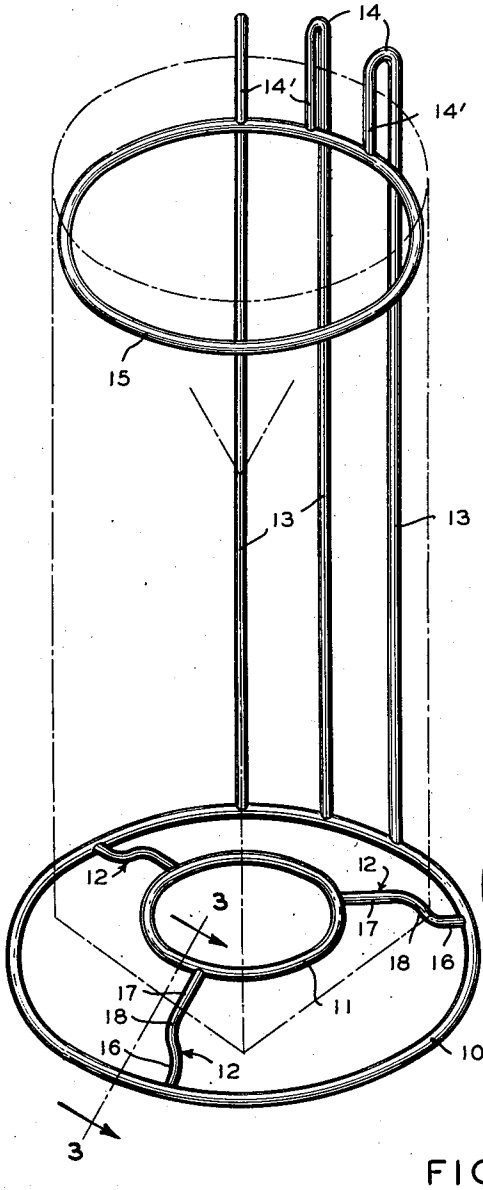


FIG. 2

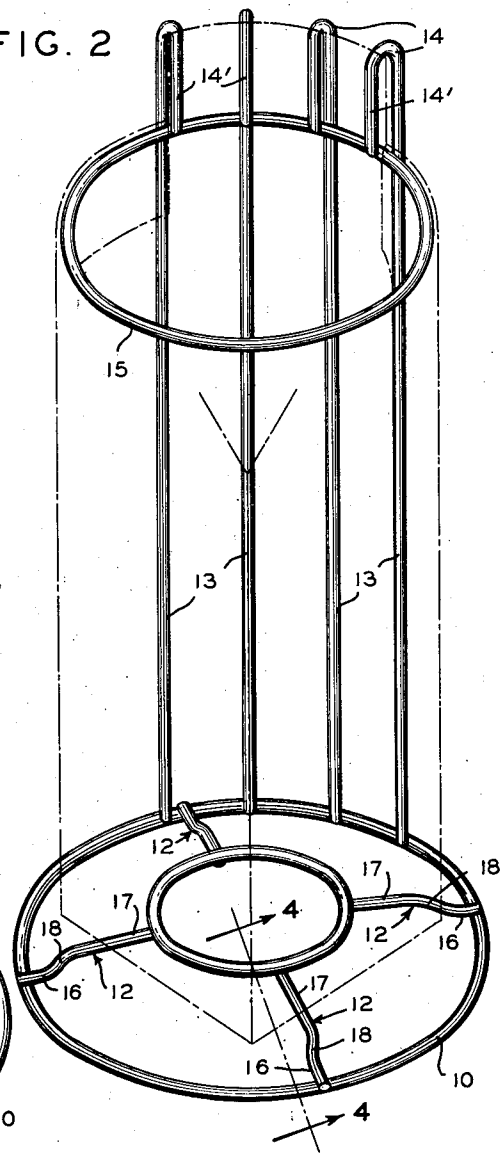


FIG. 3

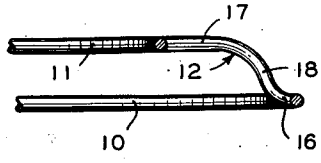
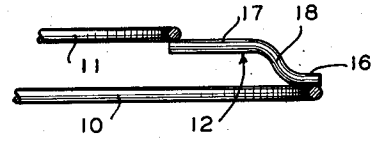


FIG. 4



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WASTE DISPOSAL DEVICE

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7 Claims. (Cl. 248—128)

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This invention relates to waste disposal, and more particularly to a rack or stand for supporting or holding a paper bag or other container in the kitchen or in any other convenient location so that discarded food or other waste matter may readily be deposited therein.

The disposal of waste including scraps of food from the dining room table and elsewhere has been a problem and attempts have been made to solve the same by the placing of small bags or other receptacles into which scraps may be received in the sink or on the drain board in readily accessible position.

When there have been relatively large quantities of waste discarded it has frequently been customary to deposit the same in large paper bags or in other receptacles on or near the sink. This required extra effort and consequent inconvenience, including the wiping up of leakage. Also, it has been necessary to hold the mouth of the bag in full expanded position while depositing material thereinto and when the bag was permitted to rest upon the drain board or sink it frequently became damp and consequently reduced in strength with the resultant loss or spillage of its contents.

In administering to the sick either at home or in hospitals there has always been the problem of disposal of waste such as cotton, bandages, tissues, and the like, in a manner to avoid the danger of infection or the spreading of disease.

Accordingly it is an object of the present invention to provide a rack which is adapted for supporting a paper bag or the like in open position in order that waste products may be conveniently placed therein, and with the bottom of the bag spaced above the surface supporting the rack in order that the same may be protected from liquid or other material thereon.

Another object of the invention is the provision of a simple, light weight, inexpensive and conveniently usable rack which is particularly adapted for supporting a paper bag or similar receptacle for the disposal of waste in such a manner that the waste may be conveniently placed therein and thereby disposed of and protected.

Further objects and advantages of the invention will be apparent from the following description taken in conjunction with the accompanying drawings, wherein:

Fig. 1 is a perspective of the device;

Fig. 2, a perspective of a modification thereof showing a bag in phantom supported thereby;

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Fig. 3, a section on the line 3—3 of Fig. 1; and,

Fig. 4, a section on the line 4—4 of Fig. 2.

Referring to the drawings, the waste disposal device includes a base 10 and a lower supporting ring 11 spaced above the base by means of legs 12 extending upwardly and inwardly therefrom. Uprights or posts 13 attached to the base 10 and having return bends 14 with portions extending therefrom are attached to an upper supporting ring 15 in order to support the same in spaced relation from the base 10 and lower supporting ring 11.

In order that the device shall be reasonably stable, the base 10 is preferably relatively broad. The leg members 12 include substantially parallel end portions 16 and 17 joined by a transverse connecting portion 18.

The end portions 17 may be of greater length than the end portions 16 and are positioned substantially in the plane of the lower supporting ring 11 in order to provide an extended supporting surface for the lower portion or bottom of the receptacle supported.

Although the uprights 13 and portions 14' are shown as straight members connected by a return bend, it is apparent that the member may be of other shapes provided that the supporting rings are positioned substantially as shown and that the uprights do not interfere with the functioning of the device.

It is contemplated that the members of the device will be of wire or rod, and preferably of or coated with material which is not susceptible to corrosion. However, the invention is not limited to material of this type, as strip material or the like might be employed. Furthermore, the base of the device, including members 10, 11, and 12, may be stamped from one piece of sheet material and have attached to it the uprights 13 which may be of strips or the like and integral or separable.

In the drawings the members are disclosed in Figs. 1 and 3 as joined by butt welds and in Figs. 2 and 4 by means of lap welds.

The invention is not limited to the specific number of elements, such as the legs 12 or the uprights 13 shown, it being apparent that fewer or more could be used in each case, four of each being shown in Fig. 2. The invention is likewise not limited to the exact form of the elements but contemplates reasonable variations therefrom.

In one method of using the device, as disclosed in Fig. 1, a paper bag or the like may be slipped over the upper ring 15 and its bottom placed on the lower supporting ring 11 and legs 12. An-

other method of use, as illustrated in Fig. 2, includes tucking the edge of the bag opening over the ring inwardly of the bag, except where the ring is attached to the portions 14'. Bags of various size may be accommodated, their variations in length being compensated for by the amount of the bag folded over at the top in order that the bottom thereof may rest on the support. In this position the bag may be readily used as a receptacle for material and at the same time will be kept out of contact with the surface on which the support 10 rests in order to prevent wetting of the bag if the support is not dry. When the bag is substantially filled, it may be easily removed and disposed of and another substituted.

It will be obvious to those skilled in the art that various changes may be made in the invention without departing from the spirit and scope thereof and therefore the invention is not limited by that which is shown in the drawings and described in the specification but only as indicated in the appended claims.

What is claimed is:

1. A wire rack for supporting a flexible receptacle comprising a broad circular base, a plurality of leg members attached to said base and extending upwardly and inwardly therefrom, a lower supporting ring of smaller diameter than the base and supported by the leg members above the base with its axis coincident with the axis thereof, a plurality of upwardly extending posts attached to said base, and having return bends at their upper extremities with portions extending therefrom, and an upper supporting ring of a smaller diameter than the base and larger than the lower supporting ring attached to the extremity of the return bend portions and with its axis coincident with the axes of the base and lower supporting rings.

2. A wire rack for supporting a flexible receptacle comprising a base, a plurality of leg members attached to said base and extending upwardly and inwardly therefrom, a lower supporting ring supported by the leg members above the base, a plurality of upwardly extending posts attached to said base, and an upper supporting ring attached to said posts in spaced relation thereto whereby said upper ring may be disposed within said receptacle to provide a support therefor.

3. In a wire rack for supporting a flexible receptacle, a member for supporting the bottom of said receptacle and comprising a broad circular base, leg members attached to said base and having parallel end portions offset by a central transverse connecting portion, one of the end portions of each being of greater length than the other, and a supporting ring of smaller size than the base attached to the longer end portions of the legs and spaced above said base with its axis coincident with that of the base, whereby an extended supporting surface for the receptacle is provided by means of said supporting ring and the longer end portions of said legs.

4. In a wire rack for supporting a flexible receptacle, a member for supporting the bottom of said receptacle and comprising a circular base, leg members attached to said base and having parallel end portions offset by a central transverse connecting portion, and a supporting ring attached to the legs and spaced above said base with its axis coincident with that of the base, whereby an extended supporting surface for the receptacle is provided by means of said supporting ring and the end portions of said legs.

5. A rack for a flexible receptacle comprising a lower member consisting of a base and a substantially parallel lower supporting ring spaced therefrom by a plurality of struts, a plurality of upstanding members attached to said lower member and having offset portions depending therefrom, and an upper supporting ring attached to the offset portions, whereby a flexible receptacle may be supported on the lower member above the base thereof with said upper ring disposed within said receptacle.

6. A rack or stand for supporting a bag or other receptacle in an upright position comprising a lower relatively broad base portion and an upper portion for maintaining the mouth of a bag or other receptacle expanded, one or more uprights connecting said lower and upper portions and maintaining them in spaced relation, said uprights providing with said upper portion a receiving space between which the upper end of the bag is adapted to be located, said base having a raised position for maintaining the bottom of a supported bag in spaced relation above a supporting surface on which the base is located.

7. A rack or stand for supporting a bag or other receptacle comprising a relatively broad base with a raised portion, upright means attached adjacent its lower end portion to said base, a member for holding the mouth of the receptacle open, said member being supported below the upper end portion of said upright means whereby a bag or other container may have its mouth inserted over said member and its lower end supported on the raised portion of the base.

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