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(54) **TRASHCAN ASSEMBLY INCLUDING LINER ENGAGING PORTION**

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(57) **ABSTRACT**

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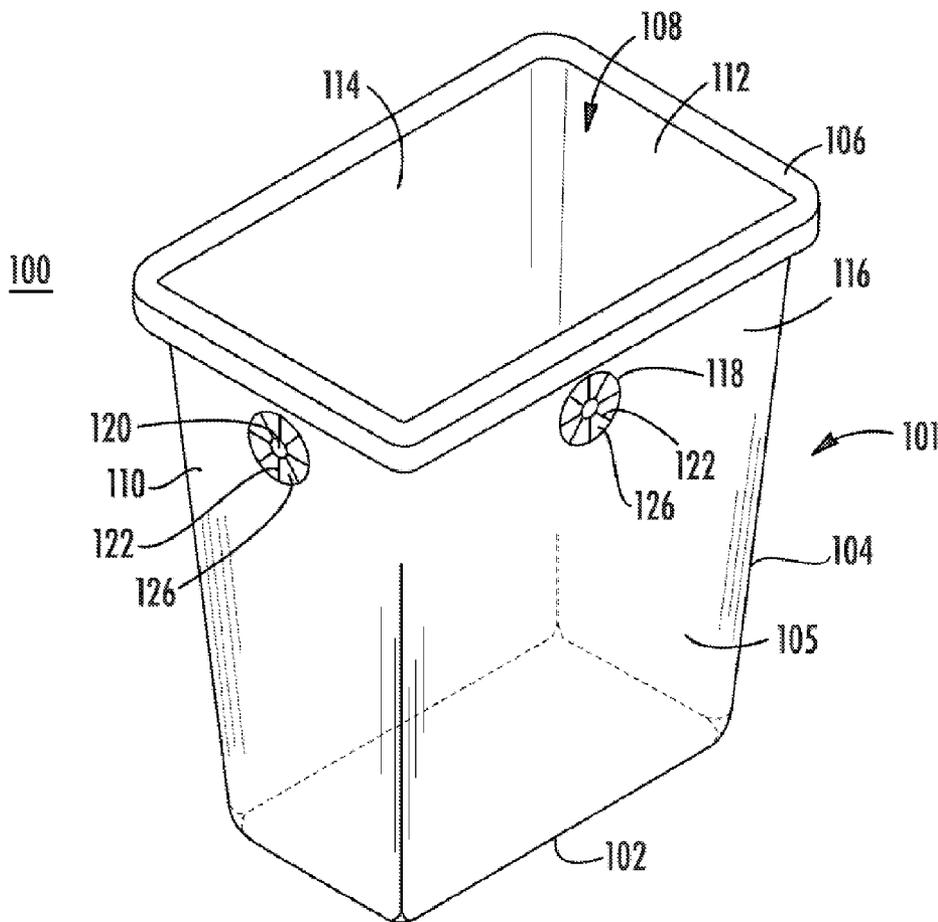
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Related U.S. Application Data

(63) Continuation-in-part of application No. 11/424,920, filed on Jun. 19, 2006, now Pat. No. 7,243,811.

(60) Provisional application No. 60/595,868, filed on Aug. 11, 2005. Provisional application No. 60/595,920, filed on Aug. 16, 2005.

A trashcan assembly includes a trashcan container and a pliable trashcan liner. The container has a bottom wall and a peripheral wall extending upwardly from the bottom wall, and a rim of the peripheral wall defines an opening into the container. The liner extends within an interior of the trashcan and serves as a liner to the interior of the trashcan container. The trashcan container includes a liner engaging portion located in an area of the peripheral wall that is at least substantially aligned with the peripheral wall surface. The liner engaging portion includes an aperture and a plurality of fingers extending away from the aperture. A portion of the liner extends through the aperture of the liner engaging portion and is disposed in frictional engagement with the fingers. Only the portion of the liner extending through the aperture secures the liner from slipping into the trashcan container.



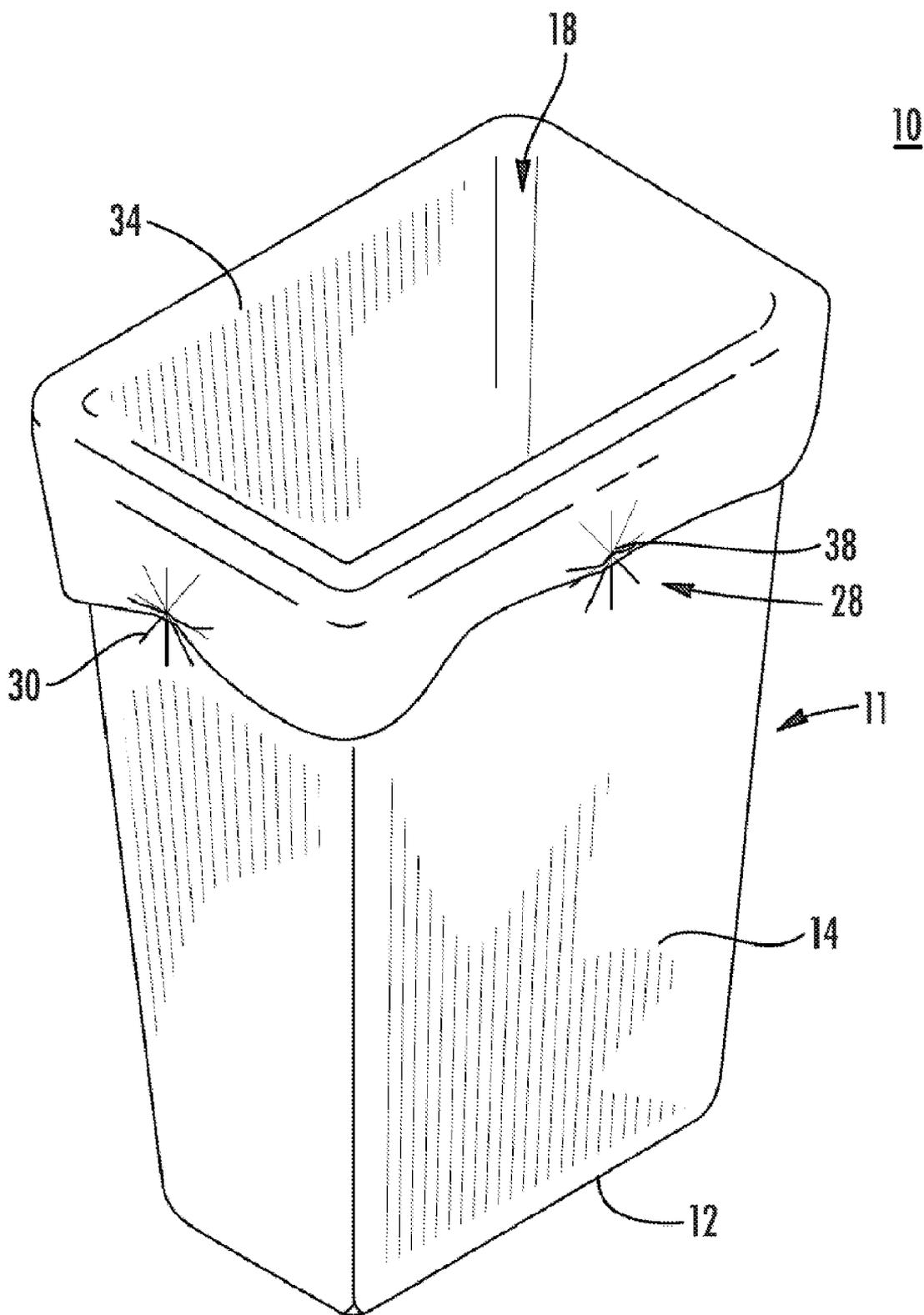
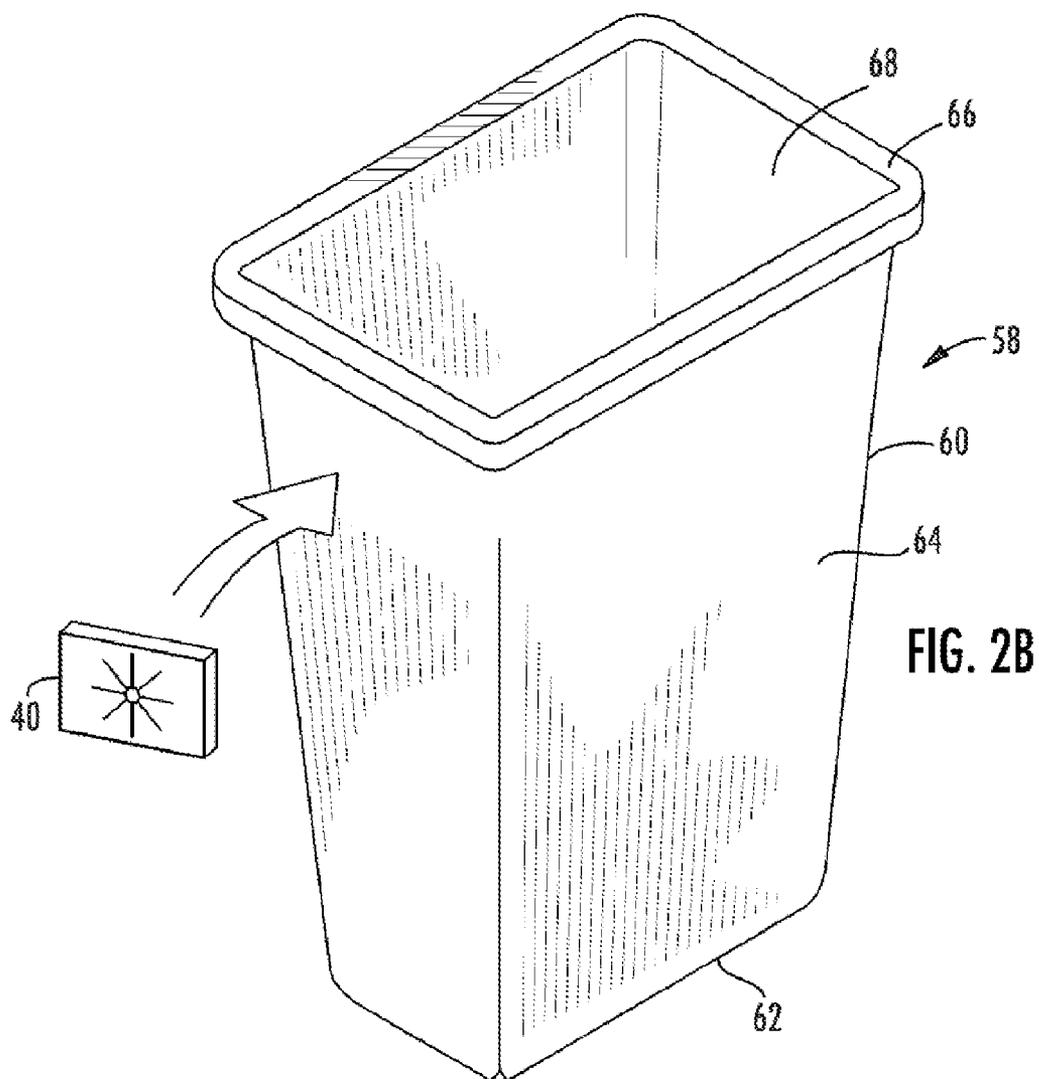
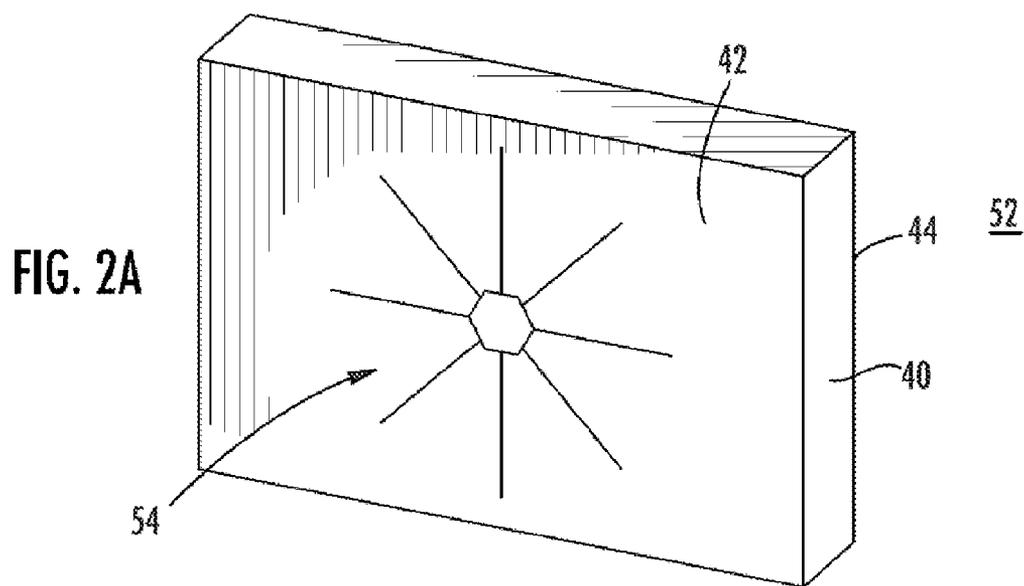


FIG. 1B



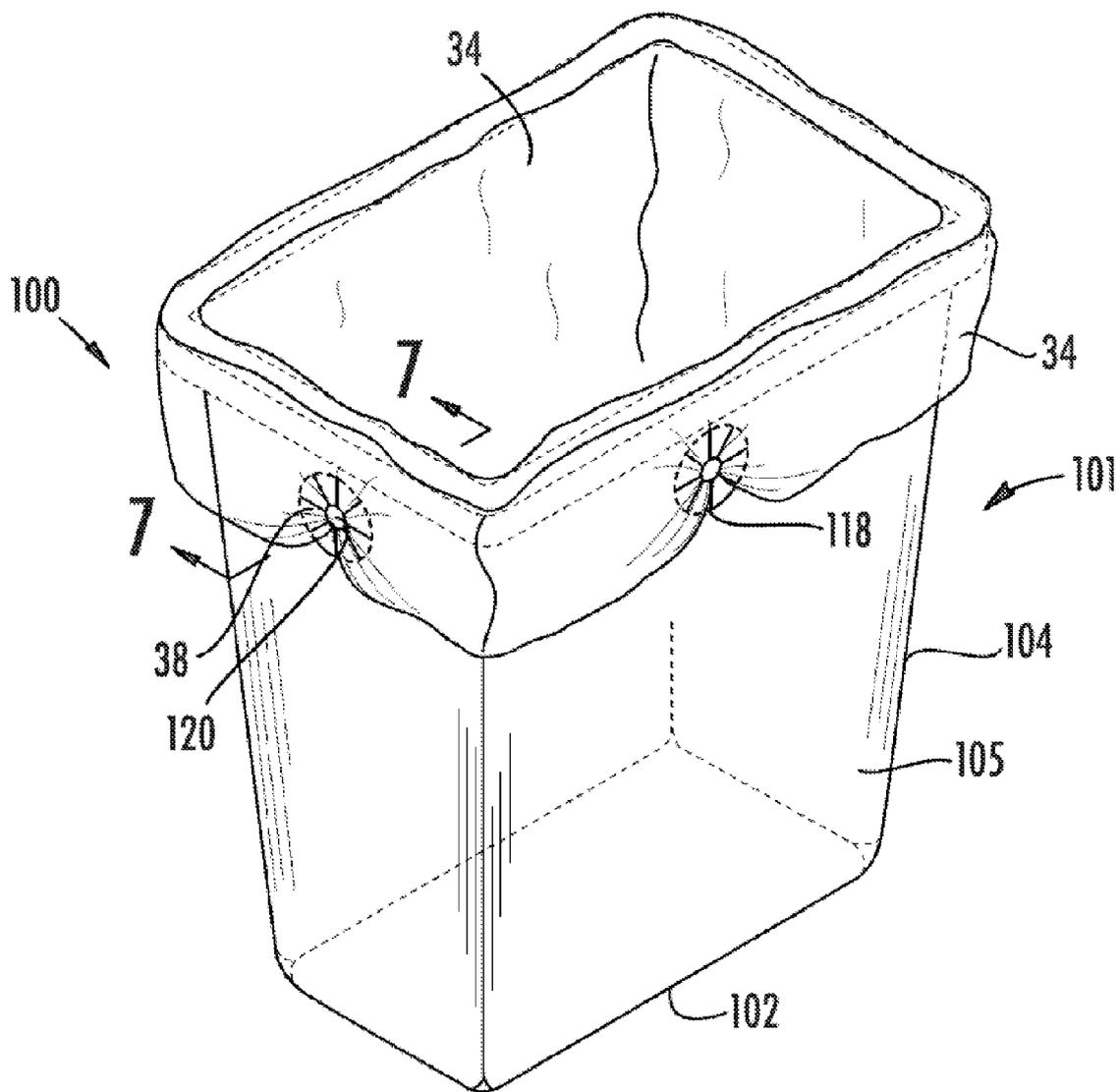


FIG. 4

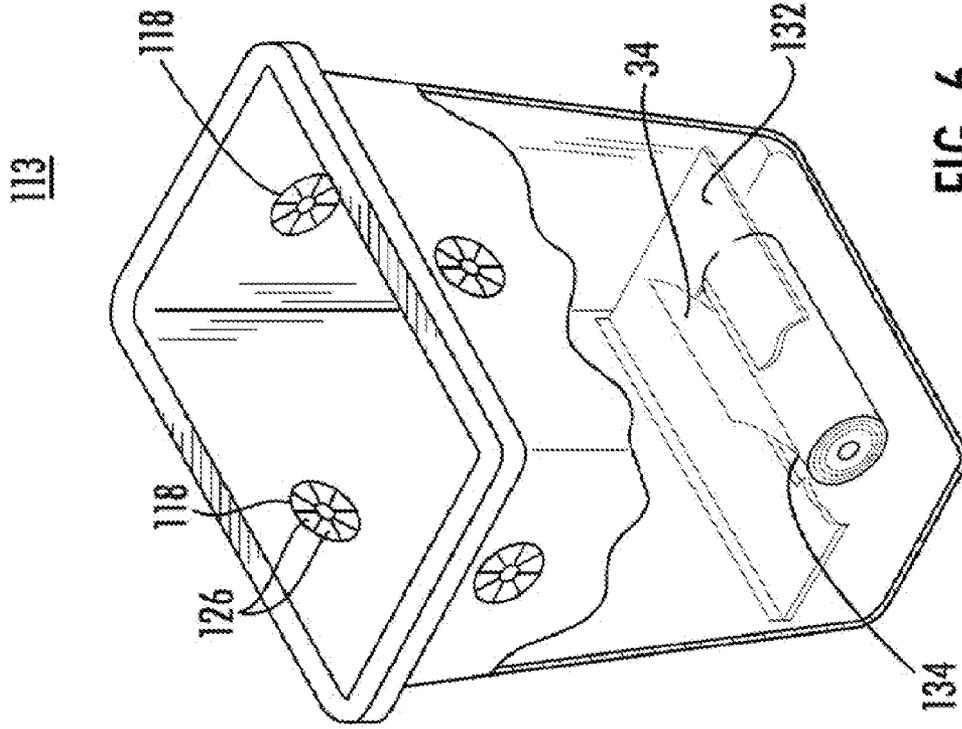


FIG. 6

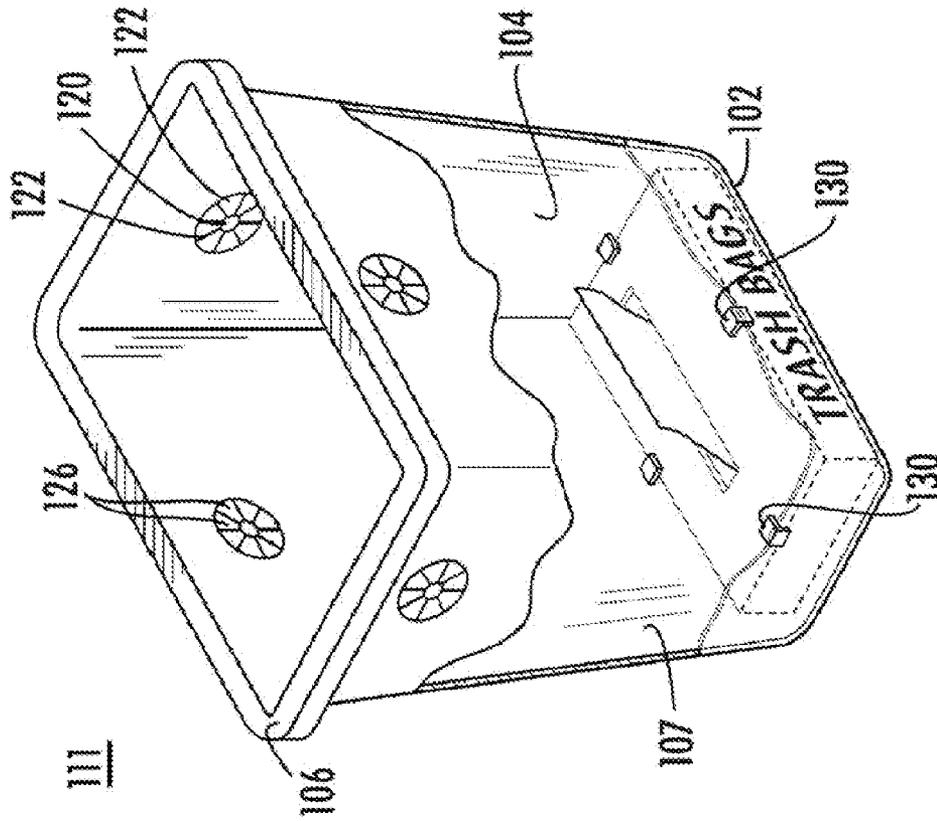


FIG. 5

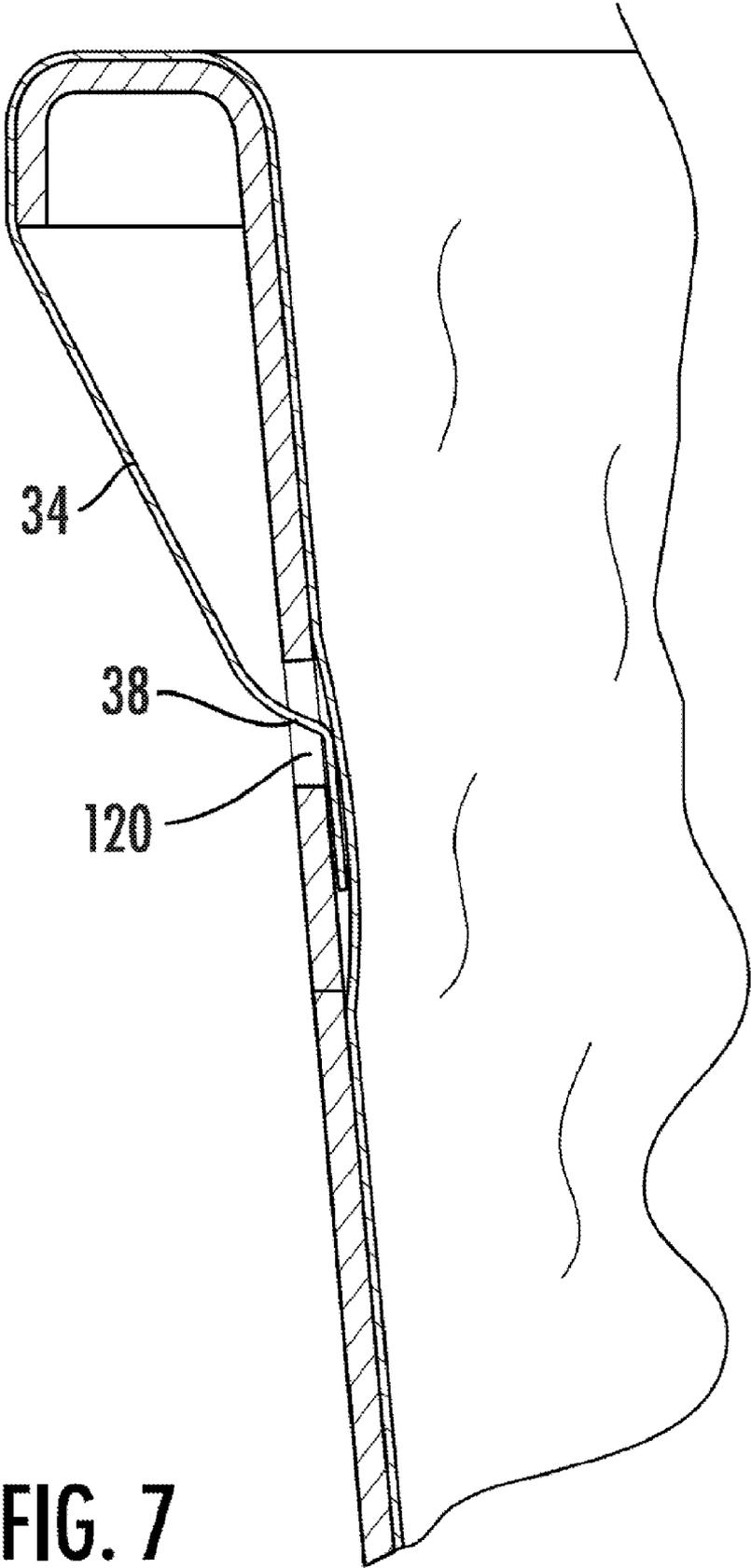


FIG. 7

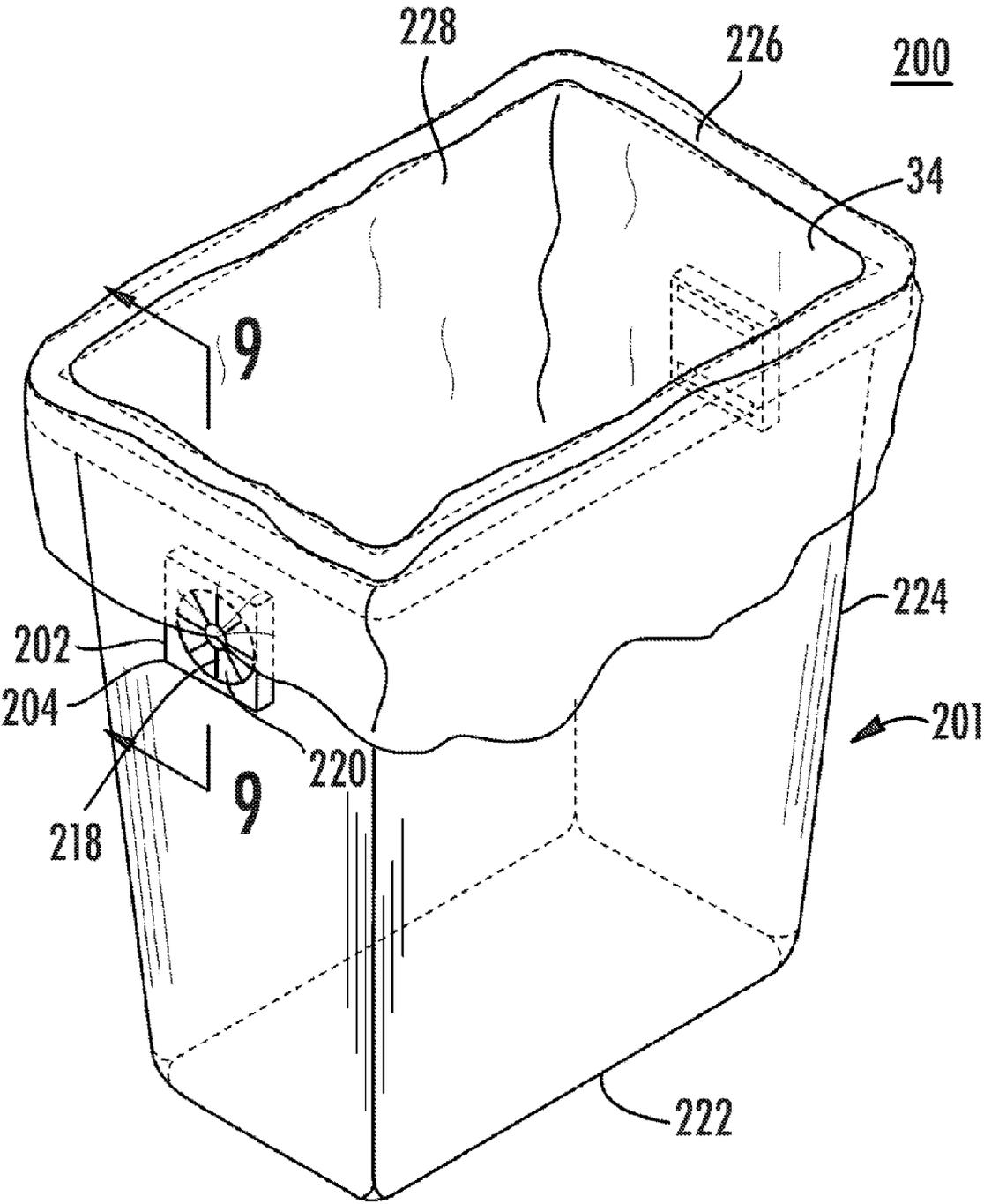


FIG. 8

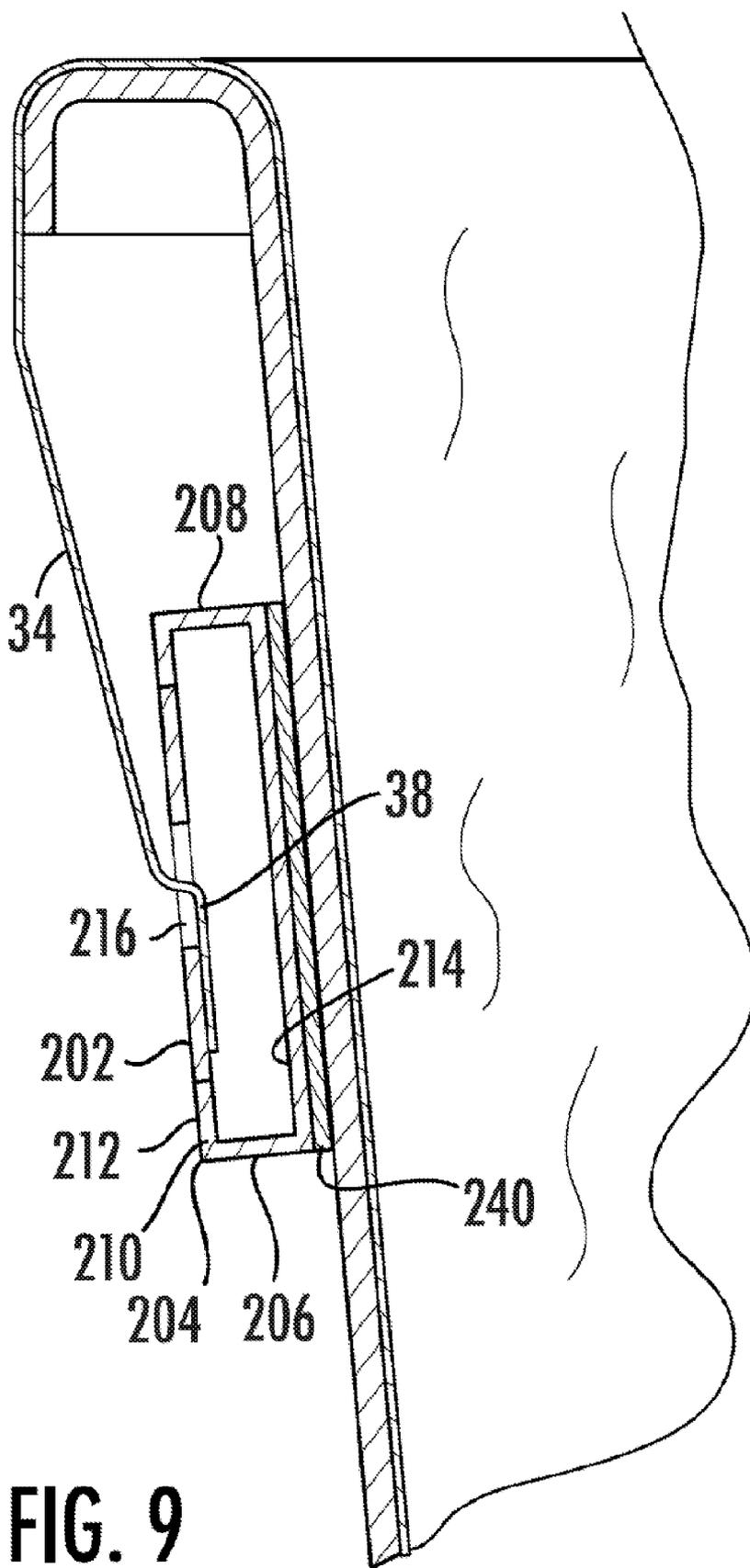


FIG. 9

TRASHCAN ASSEMBLY INCLUDING LINER ENGAGING PORTION

I. CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation-in-part of, and claims priority under 35 U.S.C. §120 to, Ramsey U.S. Nonprovisional patent application Ser. No. 11/424,920, now U.S. Pat. No. 7,243,811, which application is a nonprovisional of, and claims priority under 35 U.S.C. §119(e) to, each of: Ramsey U.S. Provisional Patent Application No. 60/595,868, filed Aug. 11, 2005; and Ramsey U.S. Provisional Patent Application No. 60/595,920, filed Aug. 16, 2005. The entire disclosure of each of these patent applications and patents is hereby incorporated herein by reference.

II. COPYRIGHT STATEMENT

[0002] All of the material in this patent document is subject to copyright protection under the copyright laws of the United States and other countries. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure, as it appears in official governmental records but, otherwise, all other copyright rights whatsoever are reserved.

III. BACKGROUND OF THE INVENTION

[0003] The use of trashcan devices is known in the prior art. U.S. Pat. No. 6,126,031, which is incorporated herein by reference, describes a device having a bottom compartment for holding a roll of trash bags so that the trash bags may be retrieved as needed through an opening extending into the bottom compartment. Another type of trashcan device is disclosed in U.S. Pat. No. 5,636,416, which is incorporated herein by reference, which device has a conventional shape and which includes clips that are attachable to a trash bag. The clips are positioned outside of the trashcan to prevent the trash bag from falling back into the trashcan. Another clip assembly for securing a trash bag is found in U.S. Pat. No. 5,645,186, which is incorporated herein by reference. Still yet, additional ways for attempting to hold a liner in place in a trashcan are disclosed, for example, in U.S. Pat. Nos. 5,261,553 and 5,419,452, each of which is incorporated herein by reference.

[0004] While these devices fulfill their respective, particular objectives and requirements, it is believed that a need remains for a simple trashcan assembly that allows a trashcan liner—sometimes referred to as a trash bag—to be secured directly to the trashcan in order to prevent the trash bag from slipping and falling into the trashcan.

IV. SUMMARY OF THE INVENTION

[0005] The present invention includes many aspects and features.

[0006] In a first aspect of the invention, a trashcan assembly comprises a container having a bottom wall and a peripheral wall extending upwardly from the bottom wall, a rim of the peripheral wall defining an opening extending into the container, and a bag engaging member located in an area of the peripheral wall with the bag engaging member being generally coplanar with the peripheral wall in the area and being configured for receiving a portion of a trash bag for securing the trash bag to an outer surface of the peripheral

wall. A trash bag may be extended over the rim and secured to the peripheral wall with the bag engaging member.

[0007] In another aspect of the invention, a trashcan assembly comprises a container having a bottom wall and a peripheral wall extending upwardly from the bottom wall, a rim of the peripheral wall defining an opening extending into the container, a bag engaging member located on the peripheral wall, and a trash bag received within the container and extending over the rim and secured to the peripheral wall with the bag engaging member with a portion of the trash bag extending through the bag engaging member into an interior of the trashcan assembly.

[0008] In a feature of this aspect, the trashcan assembly further comprises a trash bag, wherein a portion of the trash bag extends through an aperture of the bag engaging member into an interior of the trashcan assembly. In another feature of this aspect, the trashcan assembly further comprises a plurality of bag engaging members. In accordance with this feature, the plurality of bag engaging members includes two bag engaging members disposed in opposite facing relation with one another. It is preferred that the two bag engaging members are disposed on opposite walls. With regard to this feature, the plurality of bag engaging members includes four bag engaging members. With further regard to this feature, each of the plurality of bag engaging members includes an aperture extending through the peripheral wall and a plurality of slots extending generally radially away from the aperture with a plurality of resiliently flexible sections being defined between adjacent ones of the slots, wherein a portion of the trash bag may be extended into a respective aperture and frictionally secured therein by the sections. In further accordance with this feature, each of the plurality of bag engaging members is biased into a common plane with the peripheral wall. With further regard to the feature, the container is formed of a resilient, semi-flexible plastic, and each of the plurality of bag engaging members includes an arrangement of slits formed in the peripheral wall of the container, wherein portions of a trash bag may be extended into the arrangement of slits and frictionally secured therein by the arrangement. It is preferred that the arrangement of slits includes a star configuration, wherein the slits form fingers that bend inward upon insertion of a portion of a trash bag.

[0009] In another feature of this aspect, the trashcan assembly further includes a plurality of tabs, each of the tabs being attached to an inner surface of the peripheral wall with the tabs being spaced from each other and being positioned nearer to the bottom wall than the rim. The tabs are configured to secure a trash bag dispensing box adjacent to the bottom wall. In yet another feature of this aspect, the trashcan assembly further comprises a trash bag liner dispenser plate comprising a hinged plate attached to an inner surface of the peripheral wall at a location nearer to the bottom wall than to the rim and having a slot formed therein through which a trash bag liner may be dispensed.

[0010] In still yet another feature, the trashcan assembly further comprises a walled compartment disposed adjacent the bottom wall of the container with the compartment containing one or more replacement bag liners therein. In accordance with this feature, the compartment includes a hinging lid and a latch, wherein the lid is lifted for removal or replacement bag liners stored therein. In further accor-

dance with this feature, the compartment includes a lid with a slot formed there through for dispensing of replacement bags. With regard to this feature, the compartment is permanently fixed to the container. With further regard to this feature, the compartment is removably inserted into the container.

[0011] In an additional aspect of the invention, a method of making a trashcan assembly configured for receiving a trash bag, comprising the steps of providing a container having a bottom wall and a peripheral wall being attached to and extending upwardly from the bottom wall with a rim of the peripheral wall defining an opening extending into the container; forming an arrangement of slits in the peripheral wall with the arrangement being configured for receiving a portion of the bag and securing the bag to an outer surface of the peripheral wall. A trash bag may be extended over the rim and secured to the peripheral wall by insertion of a portion of the trash bag through the arrangement of slits.

[0012] In a feature of this aspect, the arrangement of slits is formed in a star configuration. In another feature of this aspect, the arrangement of slits is formed with a device configured for punching the arrangement in the peripheral wall of the container. In yet another feature of this aspect, the arrangement of slits is formed with a device configured for cutting the arrangement in the peripheral wall of the container.

[0013] In an additional feature, the arrangement of slits is formed prior to a consumer purchasing the container. In a further feature, the arrangement of slits is formed by a consumer after the consumer purchases the container. In still yet another feature, the arrangement of slits includes a circular aperture centrally located relative to the slits, each slit extending in a generally radial direction relative to the circular aperture.

[0014] In another aspect of the invention, a trashcan comprises a trash bag that has a top end that defines a mouth and a body having a surrounding wall and a top edge that defines a mouth. An opening is provided on the body adjacent the top edge wherein a portion of the trash bag is inserted through the opening of the body.

[0015] In a feature of this aspect, the body further includes fingers extending into the opening, with the fingers separated by spaces. In still yet another feature of this aspect, the portion of the trash bag is adjacent the top end of the trash bag.

[0016] In an additional aspect of this invention, a method of securing a trash bag to the mouth of a trashcan comprises providing a trashcan having a body having a surrounding wall and a top edge that defines a mouth with an opening provided on the body adjacent the top edge; positioning a trash bag so as to line the trashcan; and inserting a portion of the trash bag through the opening in order to secure the trash bag in lining disposition relative to the trashcan.

[0017] In a feature of this aspect, the step of inserting the portion of the trash bag through the opening comprises inserting the portion of the trash bag from an exterior of the trashcan, through the opening, into the interior of the trashcan.

[0018] In another aspect of the invention, a trashcan assembly comprises a container having a bottom wall and a

peripheral wall extending upwardly from the bottom wall, a rim of the peripheral wall defining an opening extending into the container; and a bag engaging member located in an area of the peripheral wall with the bag engaging member including a housing separate from the peripheral wall with the housing having a surface that is generally parallel to a plane of the peripheral wall in the area and being configured for receiving a portion of a trash bag for securing the trash bag to an outer surface of the peripheral wall. A trash bag may be extended over the rim and secured to the peripheral wall with the bag engaging member.

[0019] In yet another aspect of the invention, a trashcan assembly comprises a container having a bottom wall and a peripheral wall extending upwardly from the bottom wall with a rim of the peripheral wall defining an opening extending into the container; and a bag engaging member located on the peripheral wall with the bag engaging member including a housing having an enclosed interior space. The bag engaging member is configured for receiving a portion of a trash bag for securing the trash bag to an outer surface of the peripheral wall, wherein the portion of the trash bag extends through a surface of the housing into the enclosed interior space of the bag engaging member, wherein a trash bag may be extended over the rim and secured to the peripheral wall with the bag engaging member.

[0020] In a feature of this aspect, the bag engaging member is adhered to the peripheral wall of the container. In another feature of this aspect, the trashcan assembly further comprises a trash bag. The trash bag is received within the container in lining disposition relative to the container, and further is extended over the rim and secured to the peripheral wall by the bag engaging member with a portion of the bag extending into and residing within the enclosed interior space of the bag engaging member.

[0021] In an additional feature, the trashcan assembly further comprises a second bag engaging member located on a side wall of the peripheral wall that is opposite to a side wall on which the first bag engaging member is located. In yet another feature, the bag engaging member includes a housing having a lower wall, an upper wall and a perimeter wall being attached to and extending between the lower and upper walls with the perimeter wall including a front wall and a back wall, the front wall having an aperture extending there through with a plurality of slots extending away from the aperture. A plurality of resiliently flexible sections is defined between adjacent ones of the slots, wherein portions of the bag may be extended into the apertures and frictionally secured therein by the sections. An adhesive is attached to and covering each of the back walls with each of the bag engaging members being attached to the peripheral wall with the adhesive.

[0022] In another feature, the bag engaging member has a generally box-like shape with a front and back face with the front face having an arrangement of slits formed therein. The arrangement includes a star configuration, wherein portions of the bag may be extended into the arrangement and frictionally secured therein by the arrangement with the back face containing an adhesive for adhering each of the plurality of bag engaging members to the peripheral wall of the container.

[0023] In still yet another feature, the trashcan assembly further includes a plurality of tabs with each of the tabs

being attached to an inner surface of the peripheral wall The tabs are spaced from each other and are positioned nearer to the bottom wall than the rim with the tabs being configured to secure a trash bag dispensing box adjacent to the bottom wall. In an additional feature, the trashcan assembly further comprises a trash bag liner dispenser plate comprising a hinged plate attached to an inner surface of the peripheral wall at a location nearer to the bottom wall than to the rim and having a slot formed therein through which a trash bag liner may be dispensed.

[0024] In another feature, the trashcan assembly further comprises a walled compartment disposed adjacent the bottom wall of the container with the compartment containing one or more replacement bag liners therein. In accordance with this feature, the compartment includes a hinging lid and a latch, wherein the lid is lifted for removal of replacement bag liners stored therein. In further accordance with this feature, the compartment includes a lid with a slot formed there through for dispensing of replacement bags. With regard to this feature, the compartment is permanently fixed to the container. With further regard to this feature, the compartment is removably inserted into the container.

[0025] In addition to the aforementioned aspects and features of the present invention, it should be noted that the present invention further includes the various possible combinations of such aspects and features.

V. BRIEF DESCRIPTION OF THE DRAWINGS

[0026] Further aspects, features, embodiments, and advantages of the present invention will become apparent from the following detailed description with reference to the drawings, wherein:

[0027] FIG. 1A is a perspective view of a trashcan assembly in accordance with an embodiment of the present invention;

[0028] FIG. 1B is a perspective view of the trashcan assembly of FIG. 1A with a plurality of bag engaging members retaining a bag liner;

[0029] FIG. 2A is a perspective view of a bag engaging member in the form of a stick-on retention device for retaining a portion of a bag liner in accordance with another embodiment of the present invention;

[0030] FIG. 2B is a perspective view of a conventional trashcan and the stick-on retention device of FIG. 2A illustrating attachment of the stick-on retention device to a trashcan;

[0031] FIG. 3 is a perspective view of a trashcan assembly in accordance with an embodiment of the present invention;

[0032] FIG. 4 is a perspective view of the trashcan assembly of FIG. 3 with a trash bag liner inserted and retained therein;

[0033] FIG. 5 is a partially cut-away perspective view of a trashcan assembly similar to that of FIGS. 3 and 4, but having a plurality of tabs disposed on an inner surface of the peripheral wall for retaining a trash bag liner dispenser;

[0034] FIG. 6 is a partially cut-away perspective view of a trashcan assembly similar to that of FIG. 3 but having an alternative design accommodating a trash bag liner dispenser;

[0035] FIG. 7 is a side cross-sectional view taken along the line 7-7 in FIG. 4;

[0036] FIG. 8 is a perspective view of a trashcan assembly in accordance with an embodiment of the present invention; and

[0037] FIG. 9 is a side cross-sectional view taken along the line 9-9 in FIG. 8.

VI. DETAILED DESCRIPTION

[0038] As a preliminary matter, it will readily be understood by one having ordinary skill in the relevant art (“Ordinary Artisan”) that the present invention has broad utility and application. Furthermore, any embodiment discussed and identified as being “preferred” is considered to be part of a best mode contemplated for carrying out the present invention. Other embodiments also may be discussed for additional illustrative purposes in providing a full and enabling disclosure of the present invention. Moreover, many embodiments, such as adaptations, variations, modifications, and equivalent arrangements, will be implicitly disclosed by the embodiments described herein and fall within the scope of the present invention.

[0039] Accordingly, while the present invention is described herein in detail in relation to one or more embodiments, it is to be understood that this disclosure is illustrative and exemplary of the present invention, and is made merely for the purposes of providing a full and enabling disclosure of the present invention. The detailed disclosure herein of one or more embodiments is not intended, nor is to be construed, to limit the scope of patent protection afforded the present invention, which scope is to be defined by the claims and the equivalents thereof. It is not intended that the scope of patent protection afforded the present invention be defined by reading into any claim a limitation found herein that does not explicitly appear in the claim itself.

[0040] Thus, for example, any sequence(s) and/or temporal order of steps of various processes or methods that are described herein are illustrative and not restrictive. Accordingly, it should be understood that, although steps of various processes or methods may be shown and described as being in a sequence or temporal order, the steps of any such processes or methods are not limited to being carried out in any particular sequence or order, absent an indication otherwise. Indeed, the steps in such processes or methods generally may be carried out in various different sequences and orders while still falling within the scope of the present invention. Accordingly, it is intended that the scope of patent protection afforded the present invention is to be defined by the appended claims rather than the description set forth herein.

[0041] Additionally, it is important to note that each term used herein refers to that which the Ordinary Artisan would understand such term to mean based on the contextual use of such term herein. To the extent that the meaning of a term used herein—as understood by the Ordinary Artisan based on the contextual use of such term—differs in any way from any particular dictionary definition of such term, it is intended that the meaning of the term as understood by the Ordinary Artisan should prevail.

[0042] Furthermore, it is important to note that, as used herein, “a” and “an” each generally denotes “at least one,”

but does not exclude a plurality unless the contextual use dictates otherwise. Thus, reference to “a picnic basket having an apple” describes “a picnic basket having at least one apple” as well as “a picnic basket having apples.” In contrast, reference to “a picnic basket having a single apple” describes “a picnic basket having only one apple.”

[0043] When used herein to join a list of items, “or” denotes “at least one of the items,” but does not exclude a plurality of items of the list. Thus, reference to “a picnic basket having cheese or crackers” describes “a picnic basket having cheese without crackers”, “a picnic basket having crackers without cheese”, and “a picnic basket having both cheese and crackers.” Finally, when used herein to join a list of items, “and” denotes “all of the items of the list.” Thus, reference to “a picnic basket having cheese and crackers” describes “a picnic basket having cheese, wherein the picnic basket further has crackers,” as well as describes “a picnic basket having crackers, wherein the picnic basket further has cheese.”

[0044] Referring now to the drawings, one or more preferred embodiments of the present invention are next described. The following description of the preferred embodiment(s) is merely exemplary in nature and is in no way intended to limit the invention, its application, or uses.

[0045] FIG. 1A is a perspective view of a trashcan assembly 10 in accordance with an embodiment of the present invention. FIG. 1B is a perspective view of the trashcan assembly 10 of FIG. 1A with a plurality of bag engaging members 28 retaining a bag liner 34. The trashcan assembly 10 includes a container 11 having a bottom wall 12 and a peripheral wall 14 that is attached to and extends upwardly from the bottom wall 12. A rim 16 of the peripheral wall 14 defines an opening 18 extending into the trashcan assembly 10. The peripheral wall 14 includes a first wall 20, a second wall 22, a third wall 24 and a fourth wall 26 wherein the first 20 and second walls 22 are positioned opposite of each other.

[0046] In FIG. 1A, the trashcan assembly 10 is formed from a resilient, semi-flexible plastic material and includes one or more bag engaging members 28 including arrangements of slits 30 within one or more walls thereof. Preferably, each arrangement 30 includes a star configuration and is disposed in proximity to the rim 16 of the trashcan assembly 10. Due to the flexibility of the material and the orientation of the slits in each arrangement 30, an opening 32 inward may be formed at each arrangement 30 for insertion and retention therein of a bag liner 34. The slits form fingers 36 or teeth that bend inward upon insertion of the bag liner 34 and that resist withdrawal of the bag liner 34 when the force used to bend the fingers 36 inwardly is removed. Indeed, the fingers 36 preferably return to their original position when the force is withdrawn. By inserting the bag liner 34 into the trashcan assembly 10 and extending the top of the bag liner 34 over the rim 16 of the trashcan assembly 10, portions 38 of the top of the bag liner 34 may be inserted into and retained by the arrangement 30 of fingers 36. The portion 38 of the bag liner 34 is thereby retained in its extension over the rim 16 of the trashcan assembly 10, and the bag liner 34 is thereby prevented from falling down within the trashcan assembly 10.

[0047] The present invention further includes a method of manufacturing a trashcan assembly 10 by forming the

arrangement of slits 30 in the trashcan assembly 10 as shown. The arrangement 30 may be formed with the manufacture of the trashcan or formed thereafter. The arrangement 10 further may be formed even after purchase of the trashcan by a consumer. In this regard, an aspect of the invention includes a device for punching or cutting an arrangement of slits 30 for retention of a bag liner 34 as disclosed with respect to the trashcan assembly 10. The device preferably acts as a punch for forming the arrangement of slits 30 in the trashcan 11. Each arrangement of slits 30 is formed one at a time by the consumer in the desired locations in proximity to the rim 16 of the trashcan 11.

[0048] In alternative embodiments, the trashcan assembly 10 may include one, two, three, four or more sides each having one or more arrangements of slits 30 for retention of the bag liner 34. For example, the trashcan assembly 10 may include just two opposing arrangements of slits 30 disposed, respectively, in walls 20,22.

[0049] FIG. 2A is a perspective view of a bag engaging member 52 in the form of a stick-on retention device 40 for retaining a portion 38 of a bag liner 34 in accordance with another embodiment of the present invention. FIG. 2B is a perspective view of a conventional trashcan 58 and the stick-on retention device 40 of FIG. 2A illustrating attachment of the stick-on retention device 40 to the trashcan 58. A conventional trashcan 58 generally includes a container 60 having a bottom wall 62 and a peripheral wall 64 that is attached to and extends upwardly from the bottom wall 62. A rim 66 of the peripheral wall 64 defines an opening 68 extending into the trashcan 58. The stick-on device 40 is generally box-like in shape with a front face 42 and a back face 44. The front face 42 has an arrangement of slits 54 formed therein. Each stick-on device 40 includes at least one arrangement of slits 54 for receiving and retaining a portion 38 of a bag liner 34. Similar to the arrangement of slits 30 described herein above, the arrangement of slits 54 in the stick-on device includes a star configuration. The back face 44 of the stick-on device 40 contains an adhesive for adhering the device 40 to the peripheral wall 64 of the trashcan 58. The Ordinary Artisan will understand that any suitable adhesive may be used to adhere the stick-on device to the trashcan.

[0050] Preferably, each device 40 is capable of adhering to a conventional trashcan 58 and includes at least one arrangement of slits 54 for receiving and retaining a portion 38 of a trash bag liner 34. The stick-on device 40 is advantageous for retrofitting a conventional trashcan 58 in which the arrangements of slits 54 cannot be formed or in which a user does not wish to physically form the arrangements of slits 54.

[0051] Returning to FIG. 1A, the trashcan assembly 10 optionally includes a refill compartment 46 disposed adjacent the bottom wall 12 of the container 11 that contains therein one or more replacement bag liners. The compartment 46 has a walled housing 56 and preferably includes a hinging lid 48 and latch 50. Alternatively, the refill bag liners may be withdrawn through one or more slots formed in the lid of the compartment (not shown) as is conventional for dispensers for trash bag liners. The compartment may be permanently fixed to or integrally formed with the trashcan assembly. Alternatively, the compartment may be removably inserted into the trashcan.

[0052] FIG. 3 is another perspective view of a trashcan assembly 100 in accordance with an embodiment of the present invention, and FIG. 4 is a perspective view of the trashcan assembly 100 of FIG. 3 with a trash bag liner 34 inserted and retained therein. FIG. 7 is a side cross-section view of a bag engaging member 118 taken along the line 7-7 in FIG. 4, which bag engaging member 118 serves to retain the trash bag liner 34. The trashcan assembly 100 generally comprises a container 101 that has a bottom wall 102 and a peripheral wall 104 that is attached to and extends upwardly from the bottom wall 102. A rim 106 of the peripheral wall 104 defines an opening 108 extending into the container 101. The peripheral wall 104 includes a first wall 110, a second wall 112, a third wall 114 and a fourth wall 116 wherein the first and second walls 110,112 are positioned opposite of each other.

[0053] A plurality of bag engaging members 118 are positioned on the peripheral wall 104. Each of the bag engaging members 118 is configured for receiving a portion 38 of a trash bag liner 34, preferably a pliable plastic trash bag, and secures the bag 34 to an outer surface 105 of the peripheral wall 104. Each of the bag engaging members 118 includes an aperture 120 extending through the peripheral wall 104 and a plurality of slots 122 extending radially away from the aperture 120. A plurality of resiliently flexible sections 126 is defined between adjacent ones of the slots 122. Because the sections 126 are resiliently flexible, the sections 126 are biased into a common plane with the peripheral wall 104. Portions 38 of the bag 34 may be extended into the apertures 120 and frictionally secured therein by the sections 126. The plurality of bag engaging members 118 preferably includes at least two bag engaging members and, in other embodiments, preferably one engaging member is located on each of the first, second, third and fourth walls. However, in contemplated variations of the invention, a single bag engaging member 118 may be utilized.

[0054] FIG. 5 is a partially cut-away perspective view of a trashcan assembly 111. The trashcan assembly 111 is similar to that of FIGS. 3 and 4, but further includes a plurality of tabs 130 disposed on an inner surface 107 of the peripheral wall 104. Each of the tabs 130 is attached to an inner surface 107 of the peripheral wall 104. The tabs 130 are spaced apart from each other and are positioned nearer to the bottom wall 102 than the rim 106. The tabs 130 are configured and arranged to secure a trash bag dispensing box adjacent to the bottom wall 102. The box is positioned on the bottom wall 102 and bags are removed from the box while the box is retained on the bottom wall 102 by the tabs 130. It is preferred that the box be a conventional dispensing box of the type purchased at a grocery store or other retail establishment such as Wal-Mart, Target or K-Mart.

[0055] FIG. 6 is a partially cut-away perspective view of a trashcan assembly similar to that of FIG. 5, but having an alternative design accommodating a trash bag liner dispenser. Specifically, the trashcan assembly 113 of FIG. 6 includes a hinged plate 132 attached to the inner surface 107 of the peripheral wall 104 for holding down a trash bag dispensing box. The hinged plate 132 has a slot 134 formed therein through which a trash bag liner 34 may be dispensed.

[0056] FIG. 8 is another perspective view of a trashcan assembly 200, and FIG. 9 is a side cross-sectional view of

an alternative embodiment of a bag engaging member 202 taken along the line 9-9 in FIG. 8. The trashcan assembly 200 generally comprises a container 201 that has a bottom wall 222 and a peripheral wall 224 that is attached to and extends upwardly from the bottom wall 222. A rim 226 of the peripheral wall 224 defines an opening 228 extending into the container 201.

[0057] The bag engaging member 202 includes a housing 204 having a lower wall 206, an upper wall 208, and a perimeter wall 210 that is attached to and extends between the lower 206 and upper walls 208. The perimeter wall 210 includes a front wall 212 and a back wall 214. The front wall 212 has an aperture 216 extending there through. A plurality of slots 218 extends away from the aperture 216 in radial directions, and a plurality of resiliently flexible sections 220 is defined between adjacent ones of the slots 218. Portions 38 of a bag liner 34 may be extended into the respective apertures 216 of the two bag engaging members 202 and frictionally secured therein by the resiliently flexible sections 220. An adhesive is attached to and covers each of the back walls 214. The bag engaging members 202 are attached to the peripheral wall 224 of the container 201 with the adhesive.

[0058] Generally, in use in accordance with the present invention, a trash bag 34 is placed in a respective container 11,60,101,201 and extended over a respective rim 16,66,106,226. The trash bag 34 may then be secured to a respective peripheral wall 14,64,104,224 with one or more respective bag engaging members 28,52,118,202. The bag engaging members 28,52,118,202 prevent the trash bag 34 from falling into the container 11,60,101,201, even when trash is placed within the container 11,60,101,201 with great force.

[0059] With respect to the above description, it is to be realized that the optimum dimensional relationships for the parts of the invention, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, and all equivalent relationships to those illustrated in the drawings and described in the specification, are intended to be encompassed by the present invention.

[0060] A trashcan assembly in accordance with the invention may be utilized as a residential trash container such as, for example, trash containers found in kitchens. A trashcan assembly in accordance with the invention may also be used for commercial trash containers such as, for example, trash containers found in offices. The trashcan assembly further has utility in use in large trash containers for receiving and holding yard debris such as leaves, and has particularly utility when bagging leaves.

[0061] Based on the foregoing description, it will be readily understood by those persons skilled in the art that the present invention is susceptible of broad utility and application. Many embodiments and adaptations of the present invention other than those specifically described herein, as well as many variations, modifications, and equivalent arrangements, will be apparent from or reasonably suggested by the present invention and the foregoing descriptions thereof, without departing from the substance or scope of the present invention.

[0062] Accordingly, while the present invention has been described herein in detail in relation to one or more preferred

embodiments, it is to be understood that this disclosure is only illustrative and exemplary of the present invention and is made merely for the purpose of providing a full and enabling disclosure of the invention. The foregoing disclosure is not intended to be construed to limit the present invention or otherwise exclude any such other embodiments, adaptations, variations, modifications or equivalent arrangements, the present invention being limited only by the claims appended hereto and the equivalents thereof.

What is claimed is:

1. A trashcan assembly comprising both a trashcan container and a pliable trashcan liner,

(a) wherein said trashcan container has a bottom wall and a peripheral wall extending upwardly from said bottom wall, a rim of said peripheral wall defining an opening into said container;

(b) wherein said trashcan liner extends within an interior of said trashcan and serves as a liner to the interior of said trashcan container;

(c) wherein said trashcan container includes a liner engaging portion located in an area of said peripheral wall, said liner engaging portion being at least substantially aligned with a surface of said peripheral wall, and said liner engaging portion including an aperture and a plurality of fingers extending away from said aperture; and

(d) wherein a portion of said trashcan liner extends from the interior of said trashcan container over said rim of said trashcan container and through said aperture of said liner engaging portion and is disposed in frictional engagement with said fingers such that said trashcan liner is secured from slipping into said trashcan container when trash is received within said trashcan liner in said trashcan container, only said portion of said trashcan liner extending through said aperture to secure said trashcan liner from slipping into said trashcan container.

2. The trashcan of claim 1, wherein said fingers bend inward upon insertion of a portion of a trashcan liner.

3. The liner of claim 2, wherein said container is formed of a resilient, semi-flexible plastic.

4. The trashcan assembly of claim 1, wherein said liner engaging portion vents air that otherwise would be trapped within the trashcan container by the trashcan liner.

5. A method of securing a trashcan liner to the mouth of a trashcan, comprising:

(a) providing a trashcan having a body having a surrounding wall and a top edge that defines a mouth, and a trashcan liner engaging portion located in the surrounding wall proximate the top edge of the body, wherein the liner engaging portion is at least substantially aligned with a surface of the surrounding wall;

(b) positioning a trashcan liner so as to line the trashcan; and

(c) inserting a portion of the trashcan liner through the liner engaging portion in order to secure the trashcan liner in lining disposition relative to the trashcan;

(d) wherein the liner engaging portion includes an aperture and a plurality of fingers extending away from the aperture, the trashcan liner extending through said aperture of said liner engaging portion and being disposed in frictional engagement with said fingers such that said trashcan liner is secured from slipping into said trashcan container when trash is received within said trashcan liner in said trashcan container, only said portion of said trashcan liner extending through said aperture to secure said trashcan liner from slipping into said trashcan container.

6. The method of claim 5, wherein said step of inserting the portion of the trashcan liner through the liner engaging portion comprises inserting the portion of the trashcan liner from an exterior of the trashcan, through the liner engaging portion, into the interior of the trashcan.

7. The method of claim 5, wherein only said portion of said trashcan liner extends through said aperture for securing said trashcan liner from slipping into said trashcan.

8. A method of making a trashcan assembly configured for receiving a trashcan liner, comprising the steps of:

(a) providing a container having a bottom wall and a peripheral wall extending upwardly from said bottom wall, a rim of said peripheral wall defining an opening into said container; and

(b) forming a liner engaging portion in an area of said peripheral wall, said liner engaging portion being at least substantially aligned with a surface of said peripheral wall and including an arrangement of fingers extending from an aperture such that a trashcan liner is able to be secured to the peripheral wall by insertion of a portion of the trashcan liner through the aperture of the liner engaging portion in frictional engagement with the fingers, and such that the trashcan liner is able to be secured from slipping into the trashcan container when trash is received within the trashcan liner in the trashcan container only by the portion of the trashcan liner extending through the aperture.

9. The method in accordance with claim 8, wherein said step (b) is performed prior to a consumer purchasing the container.

10. The method in accordance with claim 8, wherein said step (b) is performed after the consumer purchases the container.

11. The method in accordance with claim 8, wherein the aperture of the liner engaging portion comprises a circular opening centrally located relative to the plurality of fingers, each finger extending in a generally radial direction relative to the central circular opening.

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