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Inventor(s)	CROSSGROVE; Jeremy

JUVENILE WHEELED GOOD WITH BAG HOLDER

Abstract

This description is related to a juvenile wheeled good system, such as a stroller or wagon, and components thereof that provide improved capabilities for providing hands-free convenience to the user. The system includes a container, such as a drink holder, removably coupled to a bag holder that can be used to hold pet waste disposal bags while using the system. The bag holder can be removed from the container (e.g., cup holder) to insert the roll of waste disposal bags and then recoupled to the container to keep the bags secure while walking the stroller. The waste disposal bags may be used for pet waste or may be used for other waste, including diapers.

Inventors: **CROSSGROVE; Jeremy (Revere, MA)**

Applicant: **Evenflo Company, Inc.** (Miamisburg, OH)

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Background/Summary

BACKGROUND

[0001] Juvenile wheeled goods can be used to transport various types of infants, toddlers, and/or

child carriers and accessories. In some instances, the person using the wheeled good is also walking a pet and may need to carry pet waste removal bags. Historically, pet owners have used different techniques for transporting waste bags, such as attaching them to the pet's leash or keeping the bags in their own pockets. However, these methods frequently lack the desired level of convenience and hands-free accessibility.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

[0002] The invention can be better understood with reference to the following drawings and description. The components in the figures are not necessarily to scale, emphasis instead being placed upon illustrating the principles of the invention. Moreover, in the figures, like reference numbers designate corresponding parts throughout different views.

[0003] FIG. **1** is a perspective view of a stroller with a container and a bag holder in accordance with a first embodiment of the present invention.

[0004] FIG. **2** is a perspective view of the stroller shown in FIG. **1** with the container and the bag holder removed to show it is removably coupled.

[0005] FIGS. **3**A-**3**C are different perspective views of the bag holder shown in FIG. **1**.

[0006] FIG. **4** is a perspective view of a roll of bags and the bag holder shown in FIG. **3**.

[0007] FIGS. **5**A-**5**C are perspective views of the container shown in FIG. **1**.

DETAILED DESCRIPTION

[0008] In general, aspects described herein are related to a waste bag holder, a multi-functional container capable of including a waste bag holder, and juvenile wheeled good systems (e.g., child carrier) with a frame suitable for securing and transporting a holder for waste disposal bags (e.g., a bag holder), among other things. Transporting young children and pets at the same time can be a multi-tasking challenge, and carrying a roll of waste disposal bags adds an extra layer of complexity. Traditionally, pet owners have employed various methods to carry these bags. While options include attaching individual bags to the pet's leash, carrying them in the owner's pockets, or utilizing a stroller compartment (e.g., the storage space under the stroller), these approaches often fall short in terms of convenience and hands-free accessibility. This disclosure is related to a juvenile wheeled good, such as a stroller or wagon, and components thereof that provide improved capabilities for housing a roll of waste disposal bags. For example, some aspects of the disclosure provide improved access to waste disposal bags by having a bag holder that is removably coupled to a container, such as a cup holder, that is attached to the wheeled good. Many juvenile wheeled goods are already equipped to receive a cup holder or similar removable container such that the addition of a bag holder to the cup holder has minimal to no cost and/or time increase on production of the juvenile wheeled good itself. Additionally, placement of the bag holder with the other container, such as a cup holder, will place the bag holder in an easily accessible location.

[0009] The bag holder can be removed from the container (e.g., cup holder) if it is no longer needed and the container can still be utilized. Additionally, the bag holder can be removed from the container (e.g., cup holder) to insert the roll of waste disposal bags and can then be recoupled to the container to keep the bags secure while a user is walking the juvenile wheeled good. The waste disposal bags may be used for pet waste or may be used for other waste, including diapers.

[0010] With reference now to FIG. **1**, a juvenile wheeled good system **100** is provided. In aspects, the juvenile wheeled good **100** could be a stroller or a wagon. For example, in FIG. **1**, the juvenile wheeled good **100** is a stroller. The juvenile wheeled good system **100** has a frame **102** coupled to one or more wheels (e.g., **120** and **124**). In the embodiment of FIG. **1**, the frame **102** has an upper structure including a first rail **104** and a second rail **105** with a handlebar **106** extending between the first rail **104** and the second rail **105**.

[0011] The first rail **104** and the second rail **105** connect to the frame's **102** lower structure, which includes front legs **118** and rear legs **122**. At the end of each front leg **118** is a front wheel **120**. The front wheels **120** may be attached via a caster, allowing the front wheels **120** to change their orientation around a vertical axis when the juvenile wheeled good system **100** is steered to one direction or another. Additionally, although the juvenile wheeled good system **100** includes two front legs **118**, aspects of this disclosure may apply to strollers with a single front leg, such as jogger strollers. At the end of each rear leg **122** is a rear wheel **124**, which may have a fixed orientation, with an axle connecting the two rear wheels **124** together. The axle may also include a brake to releasably lock the rear wheels **124** in order to prevent the juvenile wheeled good system **100** from moving inadvertently.

[0012] The first rail **104** and the second rail **105** include connection points for attaching and supporting a juvenile seat **116** between them. The first rail **104** and the second rail **105** also include connection points under the juvenile seat **116** for attaching and supporting a basket **126** between them. In other examples, the term “basket” may refer to other enclosures on a wheeled child carrier, including a wagon enclosure suitable for containing a child for transportation.

[0013] The frame **102** also has a multi-functional container **109** that includes a first container **108** coupled to a bag holder **110**. In some aspects, the first container **108** could be a cup or beverage holder configured to hold a cup, such as cup **111**. As such, the first container **108** here may also be referred to as a cup holder **108**, but in other examples, the first container **108** may be a treat holder, a snack holder, or a general holder configured to carry a variety of items such as a cell phone, car keys, a wallet, and the like. In alternative embodiments, the first container **108** could be a snack holder comprising two plastic parts (e.g., a top part and a bottom part). In this example, the top part can hold treats or snacks and the bottom part can be configured to hold water. The top part can nest into or screw onto the bottom part when not in use and is configured to couple to the rail (e.g., **104**). Further, the bag holder **110** may be configured to hold waste bags **117** and be easily accessible to a user as it may be, indirectly, on a side rail (e.g., first rail **104**) at a location that is within arm's reach of the handlebar **106**.

[0014] It is to be understood by one of skill in the art that the present invention may be suitable for use with many different types of wheeled child carriers, including different types of strollers and wagons, which may have some differences with respect to specific features than those depicted and described herein. For example, additional accessories (e.g., cup holders, pockets, etc.) may also be included on the carrier body or seat without interfering with the present invention. Furthermore, while the juvenile wheeled good system **100** shown in FIG. **1** shows the juvenile seat **116** being oriented to face towards the front of the juvenile wheeled good system **100** (and away from the handlebar **106**, it is to be appreciated that the present invention may also readily be used with a juvenile wheeled good system **100** where the juvenile seat **116** is facing toward the back of the juvenile wheeled good system **100**, or where the juvenile wheeled good system **100** has a bassinet or reclined seat. The present invention may also be used with other types of wheeled child carrier, such as wagons, or other movable apparatuses with enclosures, such as handcarts or trolleys.

[0015] Turning to FIG. **2**, examples of the multi-functional container **109** may be removable from the frame **102** of the juvenile wheeled good system **100**. The cup holder **108** is configured to removably couple to the first rail **104** and/or the second rail **105**. In aspects, the first rail **104** and/or the second rail **105** may comprise a coupling element **113** configured to couple to the cup holder **108** or another object. For illustration purposes, this discussion will focus on the first rail **104** having the coupling element **113**, but it should be understood that in other embodiments, the second rail **105** (in addition to or alternatively to the first rail **104**) may have similar structures capable of coupling to the cup holder **108**. For example, in some examples, each rail has a coupling element **113** so that the user can choose which side to couple the cup holder, or could have a different cup holder or other container on either rail (i.e., the first rail **104** and/or the second rail **105**).

[0016] The bag holder **110** can removably couple to a surface (e.g., bottom wall **114** or side wall

112) of the cup holder **108** as further described herein. The bag holder **110** may be removable from the cup holder **108** so that the bag holder **100** may be re-filled with new waste bags **117**. Additionally, the bag holder **110** may be removable from the cup holder **108** so that the cup holder **108** may be used as a standalone cup holder **108** without the bag holder **110**.

[0017] FIGS. **3**A-**3**C provide various perspective views of the bag holder **110**. The bag holder **110** comprises a first structure, referred to herein as a body **300**, having a first side wall **302** at a first side **310** and a second side wall **304** at a second side **312**. The first side wall **302** and the second side wall **304** each extend from a third side **311** to a fourth side **313**. In the embodiment shown in FIGS. **1** and **2**, the third side **311** and the fourth side **313** may generally correspond to a top side and a bottom side, respectively, when the bag holder **110** is coupled to the cup holder **108**. The first side wall **302** and the second side wall **304** each define an edge **306** facing towards the third side **311**, where the edges **306** of the first side wall **302** and the second side wall **304** are spaced apart. The first side wall **302** and the second side wall **304** may be joined on the fourth side **313**. In this way, the first side wall **302** and the second side wall **304** may form a generally U-shaped configuration. The body **300** of the bag holder **110** may be curved at the fourth side **313**, where the curved wall on the fourth side **313** may be formed by a fourth side wall or portions of the first and second side walls **302** and **304**.

[0018] The spacing **314** between the first side wall **302** and the second side wall **304** defines a void sized to hold a plurality of waste disposal bags. The spacing **314** may be within a range of about 1.0 inches to about 2.0 inches. In one example, the spacing **314** is about 1.6 inches. The body **300** of the bag holder **110** comprises an opening **326** on the fourth side **313** that is configured to hold a plurality of bags (e.g., pet waste disposal bags) and through which one or more waste disposal bags can be removed. In some aspects, while a plurality of waste disposal bags (e.g., a roll) may be held within the void of the body **300** of the bag holder **110**, bags may be individually removed through the opening **326**. In some examples, the bag holder **110** may also have a first end wall **308** and a second end wall **309**, each extending between the first side wall **302** and the second side wall **304** on opposite ends of the body **300**. The first end wall **308** and the second end wall **309** may also define the void that receives the plurality of waste bags for holding within the bag holder **110**. Each of the first end wall **308** and the second end wall **309** has a first portion **318** and a second portion **320** of the first end wall **308**. The first portion **318** and the second portion **320** may have a curved surface and be joined together at the fourth side **414** of the body **300** but may remain spaced apart at the third side **311**. In this way, each of the first end wall **308** and the second end wall **309** may have a U-shaped configuration with a gap **316** between at least part of the first portion **318** and at least part of the second portion **320**. The gap **316** may be within a range of about 0.4 inches to about 0.8 inches. In some aspects, the gap **316** increases closer to the third side **311** compared to the fourth side **313**. In other aspects, the distance **316** may be uniform.

[0019] In some aspects, the material of the body **300** of the bag holder **110** is a relatively flexible material capable of flexing upon force by a user's hand. For example, the material of the body **300** could comprised of polypropylene (PP) due to its flexing properties. The benefit of using PP is that it not only allows the body **300** to be flexible but has some resiliency, enhancing the strength to increase the number of times the body **300** may be flexed over the bag holder's **110** lifespan. PP also has enough rigidity to form hooks as a coupling element as further described herein. In some examples, the body **300** comprising PP could be strategically designed with rib structures to minimize the flexing properties, and in other examples, the body **300** does not contain rib structures. In other embodiments, the material of the body **300** could comprise a mix of various plastics and polymers, including rubber. The body **300** of the bag holder **110** is configured to flex between the first portion **318** and the second portion **320** of the first and second end walls **308**, **309**, so that the first and second portions **318** and **320** are capable of being moved closer together. In this way, the gap **316** between the first and second portions **318** and **320** may change as further described below.

[0020] The third side **311** of the bag holder **110** is configured to couple to the cup holder **108**. Particularly, the edges **306** of the first and second side walls **302** and **304** comprises coupling elements configured to removably couple the bag holder **110** to a second structure (e.g., the cup holder **108**). The body **300** includes a first coupling element **322** on the edge **306** of the first side wall **302** and a second coupling element **324** on the edge **306** of the second side wall **304**, both the first coupling element **322** and the second coupling element **324** each configured to couple to coupling elements on the cup holder **108**. In aspects, the first coupling element **322** and the second coupling element **324** can be a hook oriented so that the hook extends away from the opposite side wall (e.g., the first coupling element **322** faces away from the second side wall **304** and the second coupling element **324** faces away from the first side wall **302**), as seen in FIG. **3**B. It should be noted that the various walls can be separately formed and joined together or formed together as a unitary structure.

[0021] FIG. **4** shows a roll of waste disposal bags **328** to illustrate how a roll of waste disposal bags **328** fit into the bag holder **110**. Once the roll of waste disposal bags **328** are placed inside the void defined by the body **300** of the bag holder **110**, the bag opening **326** at the bottom of the body of the bag holder **110** is smaller than the length of the roll of waste disposal bags **328** to keep the bags secured inside the bag holder **110**. At the same time, an individual bag **117** from the roll of waste disposal bags **328** may be configured to fit through the opening **326** for removal.

[0022] Turning now to FIGS. **5**A-**5**C, are perspective views of the container **108** coupled with the bag holder **110** (together the multi-functional container). The container has one or more side walls **112** and a bottom wall **114**, wherein the one or more side walls **112** and the bottom wall **114** define a first void **510** sized to receive a cup. The container **108** has a top side wall **504**, which is part of the top portion **514** and at least partially spaced from the bottom wall **114**, and a connecting side wall **512** that connects a portion of the top side wall **504** to the bottom wall **114**. In some aspects, the container **108** could have a cover.

[0023] In aspects, the underside of the bottom wall **114** has a third coupling element **516** configured to be coupled with the first coupling element **322** of the bag holder **110** and a fourth coupling element **518** configured to be coupled with the second coupling element **324** of the bag holder **110**. The first coupling element **322** and the second coupling element **324** define a slot for receiving the one or more coupling structures of the bag holder. In alternative embodiments, the third coupling element **516** and the fourth coupling element **518** may be on the side wall **112** or the connecting side wall **512**. In other embodiments, the entire connecting side wall **512** may join the top portion **514** to the bottom wall **114**. In aspects, the one or more side walls **112** of the container **108** comprise a container coupling structure **502** configured to removably couple the container **108** to the juvenile wheeled good system **100**.

[0024] As shown in FIG. **5**C, the first coupling element **322** (i.e., the hook on the bag holder **110**) is engaged with the third coupling element **516** (i.e., the slot on the cup holder **108**) when the two components are coupled together and although not visible in FIG. **5**C, the second coupling element **324** may be similarly engaged with the fourth coupling element **518**. A user can squeeze the first and second side walls **302** and **304** together to remove the hooks from the slots. In aspects where the body **300** comprises a flexible material (e.g., PP and/or rubber for example), the flexibility of the material and/or the gap **316** of the first portion **318** and the second portion **320** in end wall **308** may enable the body **300** to flex so that the two portions **318** and **320** can be moved together. The two portions on end wall **309** may have similar structures capable of flexing similar to the portions on end wall **308**. After the hooks are disengaged from the slots, the bag holder **110** may be rejoined to the cup holder **108** in a similar fashion (e.g., flexing the two portions **318** and **320** closer together and then releasing so that the hooks are re-engaged within the slots of the cup holder **108**).

[0025] Particularly, the removable aspect allows a user to replace the roll of waste disposal bags **328** in the bag holder **110**, as well as allows the user the ability to utilize the cup holder **108** without the bag holder **110**. Furthermore, securing the bag holder **110** at two places (i.e., **322** and **324**)

keeps a stable connection so that the bag holder **110** is moved with the cup holder **108** stably without swinging around.
[0026] In alternative embodiments, one side of the bag holder **110** forms a hinge with the bottom wall **114** of the container **108**, wherein the bag holder **110** has only one coupling structure capable of being removably coupled to the container **108** to receive a roll and the other side (e.g., at the hinge) is permanently attached to the container **108**. In alternative embodiments, the first coupling element **322** and the second coupling element **324** can each be a spring loaded pin, wherein the pin could be in either the bag holder **110** or the cup holder **108** and the opening for the pin could be in the other structure. Alternatively, the first coupling element **322** and the second coupling element **324** can slide onto the third and fourth coupling elements (not shown) by sliding on a track (such as a T-slot), or by a different latching structure. In aspects, the first coupling element **322** and the second coupling element **324** can be integrally formed within the bag holder **110** or the container **108**. In these alternative embodiments, the material of the bag holder **110** could be a less flexible material than PP, such as a plastic with minimal flex.
[0027] As used herein, a recitation of “and/or” with respect to two or more elements should be interpreted to mean only one element, or a combination of elements. For example, “element A, element B, and/or element C” may include only element A, only element B, only element C, element A and element B, element A and element C, element B and element C, or elements A, B, and C. In addition, “at least one of element A or element B” may include at least one of element A, at least one of element B, or at least one of element A and at least one of element B. Further, “at least one of element A and element B” may include at least one of element A, at least one of element B, or at least one of element A and at least one of element B.
[0028] This above detailed description is provided in order to meet statutory requirements. However, this description is not intended to limit the scope of the invention described herein. Rather, the claimed subject matter may be embodied in different ways, to include different steps, different combinations of steps, different elements, and/or different combinations of elements, similar or equivalent to those described in this disclosure, and in conjunction with other present or future technologies. The examples herein are intended in all respects to be illustrative rather than restrictive. In this sense, alternative examples or implementations can become apparent to those of ordinary skill in the art to which the present subject matter pertains without departing from the scope hereof.

Claims

1. A juvenile wheeled good system comprising: a juvenile wheeled good comprising a frame coupled to one or more wheels; a container configured to be removably coupled to the frame; and a bag holder configured to be removably coupled to a surface of the container.
2. The juvenile wheeled good of claim 1, wherein the juvenile wheeled good is a stroller.
3. The juvenile wheeled good system of claim 1, wherein the frame is a wagon.
4. The juvenile wheeled good system of claim 1, wherein the container is a cup holder.
5. The juvenile wheeled good system of claim 1, wherein the bag holder is sized to receive a roll of waste disposal bags.
6. The juvenile wheeled good system of claim 5, further comprising a bag opening at a bottom side of the bag holder through which one or more waste disposal bags are removed from a void while the bag holder is coupled to the surface of the container, the bag opening being smaller than the roll of waste disposal bags.
7. A multi-functional container comprising: a first container having a bottom wall and one or more side walls, the bottom wall and the one or more side walls defining a first void; and a bag holder having a second void configured to hold a plurality of bags and having one or more coupling structures configured to removably couple the bag holder to the first container at one or more of the

bottom wall and one or more side walls of the first container.
8. The multi-functional container of claim 7, wherein the bag holder is configured to removably couple to the bottom wall.
9. The multi-functional container of claim 7, wherein the first container comprises one or more coupling elements extending from the bottom wall and defining a slot for receiving the one or more coupling structures of the bag holder.
10. The multi-functional container of claim 7, wherein the one or more side walls of the first container comprises a container coupling element configured to removably couple the first container to a juvenile wheeled carrier.
11. The multi-functional container of claim 7, wherein the first void of the first container is sized to receive a cup.
12. The multi-functional container of claim of claim 7, wherein the bag holder comprises a body having a first side wall at a first side and a second side wall at a second side, wherein at least one of the first side wall and the second side wall has a coupling structure configured to removably couple the bag holder to the container.
13. The multi-functional container of claim 12, wherein both the first side wall and the second side wall have coupling structures configured to removably couple the bag holder to the container.
14. A bag holder comprising: a first structure comprising a body having a first side wall at a first side and a second side wall at a second side, the first side wall and the second side wall each having an edge extending along a third side, the edge of the first side wall and the edge of the second side wall being spaced apart; a first coupling element on the edge of the first side wall and a second coupling element on the edge of the second side wall, both the first coupling element and the second coupling element configured to removably couple the bag holder to a second structure comprising a third coupling element and a fourth coupling element and the body defining a void for holding a plurality of bags and having a bag opening through which one or more bags of the plurality of bags are removed from the void.
15. The bag holder of claim 14, wherein the first coupling structure and the second coupling structure each comprise a hook.
16. The bag holder of claim 14, wherein the first coupling structure and the second coupling structure are each integrally formed with the body.
17. The bag holder of claim 14, further comprising the body having a curved wall at a fourth side joining the first side wall and the second side wall, wherein the bag opening is in the curved wall.
18. The bag holder of claim 17, wherein the body is configured to flex at the curved wall so that the first side wall and the second side wall are capable of being moved closer together.
19. The bag holder of claim 14, wherein the body is a flexible body.
20. The bag holder of claim 14, wherein the bag holder is sized to receive pet waste disposal bags.