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INTERLOCKING MOBILE STORAGE SYSTEM

Abstract

An interlocking mobile storage system, comprising a first storage container and a second storage container. The first storage container comprises a latch disposed on a side of the first storage container. The latch comprises a biasing member and a pivot, wherein the latch is pivotable between an engaged position and a disengaged position and the biasing member biases the latch to the engaged position. The second storage container comprises a recess comprising an overhang. The first storage container is disposed on a top of the second storage container and the latch is in the engaged position, is engaged with, and is disposed in the overhang of the recess.

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Background/Summary

BACKGROUND
Field
[0001] Aspects of the present disclosure generally relate to an interlocking mobile storage system.
Description of the Related Art
[0002] Embodiments herein generally relate to an interlocking mobile storage system, more particularly, embodiments relating to an interlocking mobile storage system having containers comprising attachment components wherein the containers themselves are stackable and interlockable with one another atop a movable cart. Although there are many different types of mobile storage systems, there is a need for an improved interlocking mobile storage system.
SUMMARY
[0003] An interlocking mobile storage system, comprising a first storage container and a second storage container. The first storage container comprises a latch disposed on a side of the first storage container. The latch comprises a biasing member and a pivot, wherein the latch is pivotable between an engaged position and a disengaged position and the biasing member biases the latch to the engaged position. The second storage container comprises a recess comprising an overhang. The first storage container is disposed on a top of the second storage container and the latch is in the engaged position, is engaged with, and is disposed in the overhang of the recess.
[0004] An interlocking storage container, comprising a top and a latch. The top comprising a first recess on a side of the interlocking storage container, wherein the first recess comprises an overhang. The latch is disposed on the side of the interlocking storage container and the latch is pivotable between an engaged position and a disengaged position. The latch comprises a grip, a locking tab, and a biasing member. The locking tab is moved towards a centerline of the interlocking storage container in the engaged position and is moved away from the centerline in the disengaged position. The biasing member is disposed between the grip and the interlocking storage container, wherein the biasing member biases the latch towards the engaged position.
[0005] A method for interlocking storage containers, comprising: disposing a first storage container on a top of a second storage container, wherein the first storage container comprises a latch on a side of the storage container, the latch comprising a biasing member, wherein the latch is pivotable between an engaged position and a disengaged position and the biasing member biases the latch to the engaged position; and configuring the latch in the engaged position, wherein the latch is engaged with and is disposed within an overhang of the second storage container.
[0006] An interlocking mobile storage system, comprising a first storage container and a cart. The first storage container comprises a latch disposed on a side of the first storage container. The latch comprises a biasing member and a pivot, wherein the latch is pivotable between an engaged position and a disengaged position and the biasing member biases the latch to the engaged position. The cart comprises a recess comprising an overhang. The first storage container is disposed on a top of the cart and the latch is in the engaged position, is engaged with, and is disposed in the overhang of the recess.

Description

BRIEF DESCRIPTION OF THE DRAWINGS
[0007] So that the manner in which the above recited features of the present disclosure can be understood in detail, a more particular description of the disclosure, briefly summarized above, may be had by reference to embodiments, some of which are illustrated in the appended drawings. It is to be noted, however, that the appended drawings illustrate only exemplary embodiments and

are therefore not to be considered limiting of its scope, may admit to other equally effective embodiments.

[0008] FIG. **1**A is a top perspective view of an interlocking mobile storage system, according to an exemplary embodiment of the present disclosure;

[0009] FIG. **1**B is a rear view of the interlocking mobile storage system of FIG. **1**A;

[0010] FIG. **2**A is a front detail view of an attachment point of the interlocking mobile storage system of FIG. **1**A;

[0011] FIG. **2**B is a side detail view of the attachment point of FIG. **2**A;

[0012] FIG. **2**C is a cross-sectional view of the attachment point of FIG. **2**A;

[0013] FIG. **3**A is a top view of storage container of the interlocking mobile storage system of FIG. **1**A;

[0014] FIG. **3**B is a top perspective view of the top of the storage container of the interlocking mobile storage system of FIG. **1**A;

[0015] FIG. **3**C is a bottom perspective view of the bottom of the storage container of the interlocking mobile storage system of FIG. **1**A;

[0016] FIG. **4**A is a cross-sectional view of the interlocking mobile storage system of FIG. **1**A;

[0017] FIG. **4**B is a detail view of the cross-section view of the interlocking mobile storage system as indicated in FIG. **4**A;

[0018] FIG. **5**A is a top perspective view of a cart of the interlocking mobile storage system of FIG. **1**A;

[0019] FIG. **5**B is a cross-sectional view of the interlocking mobile storage system of FIG. **1**A;

[0020] FIG. **6**A is a top perspective view of an interlocking mobile storage system, according to another embodiment;

[0021] FIG. **6**B is a cross-sectional view of a storage container of the interlocking mobile storage system of FIG. **6**A;

[0022] FIG. **6**C is a top perspective view of an interlocking mobile storage system, according to another embodiment;

[0023] FIG. **6**D is a cross-sectional view of a storage container of the interlocking mobile storage system of FIG. **6**C;

[0024] FIG. **7**A is a top perspective view of an interlocking mobile storage system, according to another embodiment;

[0025] FIG. **7**B is a front view of the interlocking mobile storage system of FIG. **7**A;

[0026] FIG. **7**C is a top perspective view of a cart of the interlocking mobile storage system of FIG. **7**A;

[0027] FIG. **8**A. is a top perspective view of an accessory attached to an attachment point of the interlocking mobile storage system of FIG. **1**A; and

[0028] FIG. **8**B is a top perspective view of another accessory attached to an attachment point of the interlocking mobile storage system of FIG. **1**A.

[0029] To facilitate understanding, identical reference numerals have been used, where possible, to designate identical elements that are common to the figures. It is contemplated that elements disclosed in one embodiment may be beneficially utilized on other embodiments without specific recitation.

DETAILED DESCRIPTION

[0030] The disclosure contemplates that terms such as “couples,” “coupling,” “couple,” and “coupled” may include but are not limited to welding, interference fitting, and/or fastening such as by using bolts, threaded connections, pins, clips, and/or screws. The disclosure contemplates that terms such as “couples,” “coupling,” “couple,” and “coupled” may include but are not limited to integrally forming. The disclosure contemplates that terms such as “couples,” “coupling,” “couple,” and “coupled” may include but are not limited to direct coupling and/or indirect coupling, such as indirect coupling through components such as links.

[0031] FIGS. **1**-**5** illustrate an interlocking mobile storage system **100**, according to one embodiment.
[0032] FIGS. **1**A-**1**B illustrate a top perspective and rear view of the interlocking mobile storage system **100** respectively.
[0033] The interlocking mobile storage system **100** comprises at least one storage container **101** and a cart **102**. The storage containers **101** and cart **102** are removable from the interlocking mobile storage system **100** such that they may operate as separate components or be part of the whole system **100**.
[0034] When assembled into the interlocking mobile storage system **100**, the storage containers **101** are stacked atop and interlocked with the cart **102**. In embodiments containing multiple storage containers **101**, the storage containers **101** are stacked atop one another and are configured to interlock with one another. Thus, the system **100** comprises one or more storage containers **101** stacked atop and interlocked with each other and stacked atop and interlocked with the cart **102**. This permits the storage containers **101** and the cart **102** to be movable as a single unit. The interlocking features will be described further below.
[0035] In one or more embodiments, the storage containers **101** are rectangular prisms, have consistent lengths and widths, and have chamfered edges and corners. In one or more embodiments, the storage containers **101** comprise drawers **103**. The drawers **103** are configured to slide in and out of the storage containers **101** for easy access to contents stored inside the storage containers **101**. The drawers **103** may further comprise ergonomically designed handles **104** that allow a user to pull on the drawers **103** to slide them out of the storage container **101** to access the contents inside of the storage container **101**. The storage containers **101** may also comprise cut outs **105** and handles **106** on the sides of the storage container **101** to aid a user in lifting and carrying the storage container **101** outside of the system **100**, or assembling the storage container **101** into the system **100**.
[0036] FIGS. **2**A-**2**C illustrate front, side, and cross-sectional views of an attachment point **107** of the storage containers **101**, according to one or more embodiments.
[0037] The storage containers **101** further comprise attachment points **107**. In the presently illustrated embodiment, the attachment points **107** are disposed on the sides and rear of the storage containers **101** (As indicated in FIGS. **1**A-**1**B). However, it should be understood that the present disclosure includes embodiments containing any number of attachment points **107** disposed anywhere on system **100** so long as they do not interfere with other operations of the system **100**. The attachment points **107** comprise an extrusion **108** from the storage container **101** and an indention **109** in the storage container **101**. The extrusion **108** from the indention **109** in the storage container **101** has a T-shaped cross section. In other words, the extrusion **108** has two shoulders that protrude from it. The extrusion **108** is hollow but comprises a top **110** with chamfered corners and may include an internal brace **111** for rigidity. See the description below of FIGS. **8**A-BB for detail regarding the operation of the attachment points **107**, and exemplary accessories utilizing the attachment points **107**.
[0038] FIGS. **3**A-**3**C are top, top perspective, and bottom perspective views of one storage container **101** of the interlocking mobile storage system **100**, according to one embodiment.
[0039] As stated previously, the storage containers **101** are interlockable with one another and with a cart (such as cart **102** of FIG. **1**A). The storage containers **101** are interlockable by interlocking features **112**. The interlocking features **112** comprise the top of the storage container **113**, the bottom of the storage container **114**, and the one or more latches **115**.
[0040] The top of the storage container **113** comprises a first recess **116**, a central rail **117**, a second recess **118**, and a third recess **119**. The first recess **116** spans most of the surface area of the top of the storage container **113**.
[0041] The first recess **116** is generally rectangular in shape, but its sides each comprise an inwardly protruding trapezoidal shape where the second and third recesses **118**, **119** are located.

Further, all of the edges and corners of the first recess **116** are rounded or chamfered.
[0042] The second recess **118** and third recess **119** are mirror images of each other and are disposed on each side of the top of the storage container **113**. The second recess **118** and third recess **119** are generally rectangular in shape and extend completely to the sides of the top of the storage container **113**. The inner side of the second **118** and third **119** recesses comprise an overhang **120**. The overhang **120** may also comprise a support **121**. In the illustrated embodiment, there are only two recesses **118**, **119** on the sides of the storage container **101**. However, it should be understood that there may be two or more recesses **118**, **119**.
[0043] The central rail **117** spans the width of the top recess **116** and is located at the center of the top of the storage container **113**. The central rail **117** extends from the first recess **116** and is the same height as the non-recessed portion of the top of the storage container **113**. The central rail **117** comprises supports **122** coupling the central rail **117** to the first recess **116**. In between the supports **122** are gaps. Therefore, the central rail **117** comprises overhung portions and supported portions.
[0044] The bottom of the storage container **114** is shaped complementary to the top of the storage container **113** allowing for one storage container **101** to stack atop another storage container **101**. The bottom of the storage container **114** comprises a first extrusion **123** and a second extrusion **124** which mirror each other about the center of the bottom of the storage container **114**. Each of the first extrusion **123** and second extrusion **124** fit within the first recess **116** on either side of the central rail **116** of a bottom storage container **101**. In the presently illustrated embodiment, the first extrusion **123** and second extrusion **124** are not complete extrusions and are made of a grid pattern to reduce weight of the storage containers **101**.
[0045] Also on the bottom of the storage container **114** are latches **115**. In the presently illustrated embodiment, there is a first latch **115** on one side of the storage container **101** and a second latch **115** on the other side of the storage container **101**. The latches **115** are recessed into the sides of the storage container **101** so that they do not extend beyond the sides of the storage container **101** and so that they do not extend below the extrusions **123**,**124** which would prevent the storage container **101** from being set down on a flat surface. The interlocking features **112** and their operation are further discussed below.
[0046] FIGS. **4**A-**4**B illustrate cross-sectional views of the interlocking mobile storage system **100**.
[0047] In operation, the storage containers **101** are stacked atop one another and interlocked with each other by the interlocking features **112**. The bottom of one storage container **114** fits into the top of another storage container **113**. As stated previously, the first recess **116** of the top of the storage container **113** is shaped complementary to the extrusions **123**,**124** on the bottom of the storage container **114**. The central rail **117** is also complementary to the gap between the extrusions **123**, **124**.
[0048] The storage containers **101** are interlocked by the latches **115**. The latches **115** of a top storage container **101** interlock with the overhangs **120** of a bottom storage container **101**.
[0049] The latches **115** comprise a grip **125**, side panels **126**, supports **127**, a locking tab **128**, a pivot **129**, and a biasing member **130**. Only one latch **115** is shown in FIG. **4**B for simplicity. The other latch **115** on the other side of the storage container **101** is a mirror image of the illustrated latch **115**. It should be noted that these latches **115** may be operated and manipulated independently of one another.
[0050] The latch **115** is coupled to the storage container **101** by the pivot **129** coupling the side panels **126** to the storage container **101**. The pivot **129** permits the latch **115** to move from the disengaged position (not pictured) to the engaged position (illustrated in FIG. **4**B). The latch **115** is pivoted about the pivot **129** by applying an upward force to the grip **125**. When force is applied to the grip **125** the latch **115** pivots from the engaged position to the disengaged position along arrow **131**. The biasing member **130**, in the present case a spring, is coupled to the top of the grip **125** and the storage container **101** and biases the latch **115** into the engaged position. Thus, when forces are not applied to the grip **125**, the latch **115** remains in the engaged position.

[0051] The latch **115** further comprises the locking tab **128**. The locking tab **128** is disposed on the opposite end of the latch **115** from the grip **125** and is attached to the grip **125** by supports **127**. When the latch **115** is pivoted into the engaged position, the locking tab **128** moves inward towards the center of the storage container **101**. When the latch **115** is pivoted into the disengaged position, the locking tab **128** moves outwardly away from the center of the storage container **101**.
[0052] When a storage container **101** is assembled atop another storage container **101**, the locking tabs **128** of the storage container **101** are aligned with the overhangs **120** of a storage container **101** below. As such, the overhang **120** of the storage container **101** below is configured to receive the locking tab **128**. When the latch **115** of the top storage container **101** is in the engaged position atop the below storage container **101**, the locking tab **128** of the top storage container **101** contacts and exerts an inward force to secure itself on the underside of the overhang **120** of the bottom storage container **101**.
[0053] The locking tab **128** further comprises a chamfered end **132**. The chamfered end **132** is angled in such a way that the locking tab **128** may be guided into engagement with the overhang **120**. Thus, the locking tab **128** does not need to be in the disengaged position in order to slide into engagement under the overhang **120**. If the locking tab **128** is in the engaged position and is set down atop the overhang **120**, the weight of the storage container **101** and the chamfered end **132** will cause the locking tab **128** to be guided around and under the overhang **120** and into engagement. In one or more embodiments, the locking tab **128** may also comprise a cut-out **133** in its center to avoid interference with the support **121** of the overhang **120**.
[0054] When assembling the interlocking mobile storage system **100**, a user may carry or lift the storage container **101** by the grips **125** thereby exerting an upward force on the grip **125** and holding the latch **115** in the disengaged position. The user may then set the storage container **101** down atop another storage container **101** or the cart **102**. When the user releases the storage container **101**, the user ceases to exert an upward force on the grip **125** and the latches **115** are biased to the engaged position coupling to the overhang **120**, thereby interlocking the storage container **101** with the storage container **101** or cart **102** below. As noted above, even if the user is not carrying the storage container **101** by the grips **125** nor exerting a force on the grips **125**, the chamfered ends **132** of the locking tabs **128** will still guide the latches **115** into engagement.
[0055] When disassembling the interlocking mobile storage system **100**, a user may grip the grip **125** and lift the storage container **101** by said grip **125**. In the process, the user exerts an upward force on the grip **125**, thereby pivoting the latch **115** to the disengaged position, decoupling the locking tab **128** from the overhang **120**, and removing the storage container **101** from being interlocked with the storage container **101** or cart **102** below.
[0056] As stated previously, the above description FIG. **4**B illustrates only one latch **115** however, it will be noted that in the illustrated embodiment shown elsewhere, there is one latch **115** on either side of the storage container **101**. In some embodiments, the storage container **101** may comprise more than two latches **115**.
[0057] FIGS. **5**A-**5**B illustrate the cart **102** of the interlocking mobile storage system **100**. FIG. **5**A is a top perspective view of the cart **102**. FIG. **5**B is a cross-sectional view of the bottom of a storage container **114** interlocked with the cart **102**. The cart **102** comprises a rectangular platform **134**, one or more handles **135**, and casters **136**.
[0058] The one or more handles **135** are disposed on a side of the cart **102**. The illustrated embodiment comprises two handles **135** on the front and back of the cart **102** however, it should be understood that there may be any number of handles **135** oriented in any direction on any side of the cart **102** enabling a user to manually direct and move the cart **102** and the system **100**. The casters **136** allow the system **100** to roll. Some of the casters **136** may be rotatable allowing the cart **102** to be steered and some may be fixed in orientation such that the wheels are pointed in a singular direction. The presently illustrated embodiment comprises four casters **136**, however, it is to be understood that the invention includes embodiments with any number of casters **136** with any

combination of fixed and/or rotatable casters **136**.
[0059] Storage containers **101** sit atop and interlock with the top of the platform **134**. The platform **134** is generally rectangular in shape, but comprises rounded and chamfered edges and corners. As shown in FIG. **5**A the rectangular platform **134** may also comprise recesses to allow for handles **135** while still maintaining a total package shape of a rectangle.
[0060] The top of the platform **137** is similarly designed to the top of the storage containers **113** to allow for the storage containers **101** to interlock with the platform **134**. When interlocked, the storage container **101** is prevented from shifting or being removed from the interlocking mobile storage system **100** without user input.
[0061] Similar to the top of the storage container **113**, the top of the platform **137** is shaped complementary to the bottom of the storage containers **114**. The top of the platform **137** comprises a first recess **138**, a central rail **139**, a second recess **140**, and a third recess **141**. For the sake of brevity, these features will not be described in detail, as the discussion regarding the top of the storage container **113** suffices to describe the top of the platform **137**.
[0062] The top of the platform **137** and the bottom of a storage container **114** interlock the same way as the top of a storage container **113** and the bottom of a storage container **114** interlock. Thus, for the sake of brevity, the method of interlocking and operation will not be discussed in detail, as the discussion regarding the interlockability of the top of a storage container **113** and the bottom of another storage container **114** is applicable here.
[0063] The cart **102** may also store extra casters **136** on the bottom of the platform **142**. The casters **136** may clip into place. The extra casters **136** may be of a different type or size, or they may just be extras of the type already installed on the cart **136**.
[0064] FIGS. **6**A-**6**D illustrate a storage container according to another embodiment. The presently illustrated interlocking mobile storage system **200** comprises another embodiment of a storage container, hereinafter the “half box” **201**.
[0065] The half box **201** is similar to the storage container **101** of FIGS. **1-5**, however, it is half the length. Thus, the outer side of the half box **201** is the same as the side of the storage container **101** of FIGS. **1-5**. The inner side is substantially flat.
[0066] Other than in size, the half boxes **201** differ from the storage containers **101** of FIGS. **1-5** in their interlocking features **212**. The interlocking features **212** include a bottom of the half box **214**, a latch **215**, a foot **243**, and may include a top of the half box **213**,
[0067] In some embodiments, such as the one shown in FIGS. **6**A-**6**B, the top of the half box **213** comprises one half of the recess pattern of the top of the storage container **113** of FIGS. **1-5**. That is, the top of the half box **213** has a first recess **216** and a second recess **218**. The first recess **216** is one half of the first recess **116** of the storage container **101** of FIGS. **1-5**. The first recess of the half box **216** is substantially rectangular with one inwardly protruding trapezoidal shape where the second recess **218** is located. The second recess **218** is disposed on the outside of the top of the half box **213** and comprises an overhang **220** with a support **221**.
[0068] In other embodiments, such as the one shown in FIGS. **6**C-**6**D, the half box **201** includes a bag **256** with a bottom portion **255** attached to (e.g., sewn on, or heat welded on, or other attachment means known in the art) that engages with the top of the system **200** in the same way the half box **201** of FIGS. **6**A-**6**B engages with the system. As can be appreciated, the bag **256** with bottom portion **255** may be, for example, a backpack (as shown), or a tote bag or any similar type bag for convenient mobile storage.
[0069] The bottom of the half box **214** comprises one half of the extrusion pattern of the storage container **101** of FIGS. **1-5**. That is, the bottom of the half box **214** is substantially complementary with one half of the top of a storage container **113** of FIGS. **1-5**. The bottom of the half box **214** comprises a first extrusion **223** which fits within the first recess **116** of a storage container **101** of FIGS. **1-5** on one side of the central rail **117**.
[0070] The half box **201** comprises one latch **215** that comprises the same components and operates

similarly to the latch **115** of the storage containers.
[0071] The foot **243** is an extrusion extending below the half box **201** and outwardly from the half box **201** on the opposite side of the half box **201** from the latch **215**. The foot **243** is configured to slide under and engage with the central rail **117** of the storage container **101** below the half box **201**, thereby interlocking the half box **201** with the top **113** of the storage container **101** below.
[0072] In operation, the half box **201** may be assembled into the interlocking mobile storage system **200** as illustrated in FIG. **6**A. The half box **201** is assembled atop a storage container **101**. In operation, a user carries a half box **201** and first guides the foot **243** underneath and into contact with the underside of the central rail **117** of a storage container **101** beneath the half box **201** and then sets the remaining side of the half box **201** down atop the storage container **101** in the same way described above with reference to a storage container **101** being assembled onto another storage container **101**.
[0073] While the embodiment presently illustrated only illustrates one half box **201** atop the system **200**, it should be appreciated that two half boxes **201** may be assembled atop one storage container **101**.
[0074] FIGS. **7**A-**7**C illustrate an interlocking mobile storage system **300**, according to another embodiment. The presently illustrated interlocking mobile storage system **300** comprises another embodiment of a storage container, hereinafter the "top opening container" **301**, and a different embodiment of the cart, hereinafter "the dolly" **302**.
[0075] The top opening container **301** comprises a different mode of accessing the contents inside the. Rather than having drawers, the top opening container **301** comprises a flip top **303** pivotably coupled to the top opening container **301** by hinges **344**, wherein the flip top **303** is secured closed by clasps **345** disposed on the opposite side of the top opening containers **301** from the hinge.
[0076] The interlocking mobile storage system **300** also comprises a dolly **302** rather than the cart **102** of the interlocking mobile storage system **100** of FIG. **1**A. The dolly **302** comprises a frame **346** with a handle **347**, a cross member **348**, container brackets **349**. The dolly **302** further comprises wheels **350** connected by an axle **351**.
[0077] The dolly **302** is coupled to the stacked top opening containers **301** by the container brackets **350** which are coupled by, for example, threaded fasteners to the back of one top opening container **301** of the system **300**. The frame **346** supports the weight of the system **300**. The handle **347** allows a user to manipulate the dolly **302** to move the system **300**.
[0078] In operation a user would couple the container brackets **349** to a top opening container **301** of the system **300** and use the handle **347** to tilt the dolly **302** backwards, wherein only the wheels **351** are contacting the ground. The user would then use the handle **347** to balance the system **300** on the wheels and the user could manipulate and roll the system **300**.
[0079] While the mode of opening and mode of movement of the systems **100** and **300** differ in design, the interlocking features **312** of the top opening containers **301** are the same as those used in the system **100** of FIGS. **1-5**.
[0080] FIGS. **8**A-**8**B illustrate exemplary accessories that may attach to an attachment point **107** of the interlocking mobile storage system **100**. FIG. **8**A illustrates a hanger **451**. The hanger **451** may be slid onto an attachment point **107** by a mounting plate **452** of the hanger **451** that is shaped to complement the T-shaped section of an attachment point **107**. The hanger **451** allows a user to hang objects from the system **100**. FIG. **8**B illustrates a bucket **453**. The bucket **453** may be slid onto an attachment point **107** by a back **454** of the bucket **453** that is shaped to complement the T-shaped section of an attachment point **107**. The bucket **453** allows a user to store objects on the outside of the system **100** for easy and quick access.
[0081] It is contemplated that one or more of these aspects disclosed herein may be combined. Moreover, it is contemplated that one or more of these aspects may include some or all of the aforementioned benefits.
[0082] As an example, the present disclosure contemplates that one or more of the aspects, features,

components, operations, and/or properties of the systems **100**, **200**, and **300** may be combined.
[0083] It will be appreciated by those skilled in the art that the preceding embodiments are exemplary and not limiting. It is intended that all modifications, permutations, enhancements, equivalents, and improvements thereto that are apparent to those skilled in the art upon a reading of the specification and a study of the drawings are included within the scope of the disclosure. It is therefore intended that the following appended claims may include all such modifications, permutations, enhancements, equivalents, and improvements. The present disclosure also contemplates that one or more aspects of the embodiments described herein may be substituted in for one or more of the other aspects described. The scope of the disclosure is determined by the claims that follow.

Claims

1. An interlocking mobile storage system, comprising: a first storage container comprising a latch disposed on a side of the first storage container, the latch comprising a biasing member and a pivot, wherein the latch is pivotable between an engaged position and a disengaged position and the biasing member biases the latch to the engaged position; and a second storage container comprising a recess comprising an overhang, wherein the first storage container is disposed on a top of the second storage container and the latch is in the engaged position, is engaged with, and is disposed in the overhang of the recess.
2. The interlocking mobile storage system of claim 1, wherein: the first storage container further comprises a second latch on a second side of the first storage container, the second latch comprising a second biasing member and a second pivot, wherein the second latch is pivotable between an engaged position and a disengaged position and the second biasing member biases the second latch to the engaged position; and the second storage container further comprises a second recess comprising a second overhang, wherein the second latch is in the engaged position, is engaged with, and is disposed in the second overhang of the second recess.
3. The interlocking mobile storage system of claim 1, wherein: the first storage container further comprises a foot on a second side of the first storage container; and the second storage container further comprises a central rail with a second overhang, wherein the foot is disposed within and engaged with the central rail.
4. The interlocking mobile storage system of claim 1, wherein: the first storage container further comprises an extrusion on a bottom of the first storage container; the second storage container further comprises a third recess on a top of the second storage container; and the extrusion is disposed in the third recess.
5. The interlocking mobile storage system of claim 1, wherein the latch further comprises a chamfered end configured to guide the latch into engagement with the overhang of the recess.
6. The interlocking mobile storage system of claim 1 further comprising a cart, wherein the second storage container is disposed on a top of the cart.
7. The interlocking mobile storage system of claim 6, wherein: the second container comprises a second latch on a second side of the storage container, the second latch comprising a second biasing member and a second pivot, wherein the second latch is pivotable between an engaged position and a disengaged position and the second biasing member biases the second latch to the engaged position; and the cart comprises a second recess comprising a second overhang, wherein the second latch is in the engaged position, is engaged with, and is disposed in the second overhang of the second recess.
8. The interlocking mobile storage system of claim 7, wherein: the second storage container further comprises an extrusion on a bottom of the second storage container; the cart further comprises a third recess on a top of the cart; and the extrusion is disposed in the third recess.
9. The interlocking mobile storage system of claim 1, wherein the first storage container comprises

drawers.
10. The interlocking mobile storage system of claim 1, wherein the first storage container comprises a hinged top.
11. An interlocking storage container, comprising: a top comprising a first recess on a side of the interlocking storage container, wherein the first recess comprises an overhang; and a latch disposed on the side of the interlocking storage container and the latch is pivotable between an engaged position and a disengaged position, the latch comprising: a grip; a locking tab, wherein the locking tab is moved towards a centerline of the interlocking storage container in the engaged position and the locking tab is moved away from the centerline in the disengaged position; and a biasing member disposed between the grip and the interlocking storage container, wherein the biasing member biases the latch towards the engaged position.
12. The interlocking storage container of claim 11, further comprising a second latch on a second side of the interlocking storage container, the second latch comprising: a second grip; a second locking tab, wherein the second locking tab is moved towards the centerline of the interlocking storage container in the engaged position and the locking tab is moved away from the centerline in the disengaged position; and a second biasing member disposed between the second grip and the interlocking storage container, wherein the second biasing member biases the second latch towards the engaged position.
13. The interlocking storage container of claim 11 further comprising a foot on a second side of the interlocking storage container, wherein the foot comprises an extrusion protruding from the second side of the interlocking storage container.
14. The interlocking storage container of claim 11 further comprising a first recess and a second recess in a top of the interlocking storage container, wherein the first recess comprises an overhang and extends to the side of the interlocking storage container and the second recess comprises an overhang and extends to a second side of the interlocking storage container.
15. The interlocking storage container of claim 14 further comprising a third recess disposed between the first recess and the second recess.
16. A method for interlocking storage containers, comprising: disposing a first storage container on a top of a second storage container, wherein the first storage container comprises a latch on a side of the first storage container, the latch comprising a biasing member, wherein the latch is pivotable between an engaged position and a disengaged position and the biasing member biases the latch to the engaged position; and configuring the latch in the engaged position, wherein the latch is engaged with and is disposed within an overhang of the second storage container.
17. The method of claim 16, wherein: the first storage container further comprises a second latch on a second side of the first storage container, the second latch comprising a second biasing member, wherein the second latch is pivotable between an engaged position and a disengaged position and the second biasing member biases the second latch to the engaged position; and the method further comprises configuring the second latch in the engaged position, wherein the second latch is engaged with and is disposed within a second overhang of the second storage container.
18. The method of claim 16, wherein: the first storage container further comprises a foot on a second side of the first storage container, wherein the foot comprises an extrusion protruding from the second side of the first storage container; and the method further comprises engaging the foot with and disposing the foot in a central rail of the second storage container.
19. The method of claim 16, wherein: the second storage container comprises a second latch on a second side of the second storage container, the second latch comprising a second biasing member, wherein the second latch is pivotable between an engaged position and a disengaged position and the second biasing member biases the second latch to the engaged position; the method further comprises disposing the second storage container on a top of a cart and configuring the second latch in the engaged position, wherein the second latch is engaged with and disposed within a second overhang of the cart.

20. The method of claim 16 further comprising configuring the latch in the disengaged position, wherein the latch is released from overhang of the second storage container.