A portable storage system

A storage system for a seating unit comprising storage means having first and second pannier portions for storing articles. The storage system has securing means in the form of at least one strip of material extending between said pannier portions for securing said storage means to said seating unit. Each pannier portion is arranged to depend from the securing means on a respective side of the seating unit in use and the strip of material is selectively securable around a portion of the seating unit. The strip of material comprises releasable fastening means such that the strip can be passed around the seating unit during use and selectively fastened together so as to form a closed loop about said seating unit.
Description

[0001] The present invention relates to a portable storage system for a seating unit such as, but not limited to, a sun bed, sun lounger, other recliner, deck chair or the like.

[0002] It is well known for sunbathers and the like to take a variety of articles with them both to provide entertainment or distraction whilst sunbathing, and for practical reasons. Typically, for example, a sunbather may have a media player such as an mp3 player, CD player, iPod®, hand held games console, or the like for providing entertainment. The sunbather may also have reading material such as a book, magazine, and/or newspapers, a cold drink for avoiding dehydration, sun lotion, money, a digital camera, jewellery, sun glasses, etc..

[0003] The convenient storage of such articles, whilst sun bathing, is a known problem.

[0004] Typically, articles are left on the ground such as hot concrete by a swimming pool, or on a sandy beach near the sea. Alternatively, the articles may be stored haphazardly in a bag. However, in both cases there is a significant risk of the articles becoming damaged or being stolen. Portable electronic devices in particular are attractive to thieves since they are often lightweight and high in value. Furthermore, thieves can easily steal an article whilst the sunbather is distracted or asleep.

[0005] Where the articles are left on the ground, for example, they are easily kicked or trodden on, and hence damaged by a passer-by. They also represent a health and safety hazard because the passer-by might be injured as a result of treading on / tripping over an article. Additionally, electronic articles and especially those with mechanical / electro-mechanical parts can become damaged by sand, water, and or radiation from the sun.

[0006] Storage in a bag is preferable but the articles remain at risk of damage during transit and while a user is looking through the contents of the bag. Additionally, the bag itself along with its contents are still at significant risk of theft while a user is asleep / distracted.

[0007] Known storage systems for chairs and the like generally comprise rigid box-like structures which are fixed to the chair and which are not portable without the chair itself.

[0008] The present invention provides a portable storage system for a seating unit such as sun bed, sun lounger, other recliner, deck chair or the like, which mitigates the above problems.

[0009] According to a first aspect of the present invention there is provided, a storage system for a seating unit such as a sun bed, sun lounger, other recliner, deck chair or the like comprising:

- storage means for storing articles; and
- securing means for securing said storage means to said seating unit; wherein said securing means is secured around a portion of said seating unit such that said storage means are accessible to a user; and wherein said storage means comprises at least two pannier portions, each pannier portion arranged to depend from the attachment portion on a respective side of said seating unit.

[0010] The present invention is particularly advantageous since the storage system can be attached to and removed from the seating unit as required. Thus the storage system is not specific to any single seating unit and can be carried by a user for use in conjunction with a variety of seating units as and when required by the user. The user can therefore use the storage system in a manner similar to that of a conventional carrier or bag when carrying articles to a desired location and can subsequently attach the storage system to the seating unit.

[0011] Furthermore the present invention is advantageous since the elongate securing means passes around the seating unit, typically around the portion of a seating unit which is configured to support the weight of a user, such as the seat itself. Thus when the user is sitting or lying on the seating unit, it is difficult to remove the storage system without first dislodging the user. Hence it is difficult for a thief to remove the storage system without alerting the user.

[0012] According to a preferred embodiment, the securing means comprises a first strip of material which is attached at one end to the first pannier and at an opposing end to the second pannier. Preferably the securing means comprises a second strip which is releasably attachable between the first and second pannier portions.

[0013] During use, the first strip can pass around a first side of a seating unit and the second strip can be passed around a second side of the seating unit and fastened to form a closed loop around the seating unit. The second strip can be detached, breaking the closed loop, when it is required to remove the storage system from the seating unit. Typically the first and second strips can be passed respectively above and below a portion of the seating unit.

[0014] According to a preferred embodiment the first and second pannier portions comprise opposing attachment means so as to allow the pannier portions to be selectively fastened together when the storage system is removed from the seating unit. This makes the storage system easy to carry by a user. The attachment means may be located along one edge, along a pair of edges, or else around the perimeter of each pannier portion.

[0015] Preferably either or both of the first or second strips of material provide a strap, such as for example a shoulder strap, for carrying the storage system. In one embodiment, the strip which acts as a shoulder strap may be attached to different locations on each of the first and second pannier portions. The strip may be attached towards opposing edges of the pannier portions.

[0016] Each pannier portion may have a pair of opposing major faces which may be substantially rectangular in shape. A first face of each pannier portion may be provided with pockets, pouches and/or flaps for selective
access to one or more internal pockets of the pannier. A second face of each pannier may be provided with attachment means for attachment to the second face of the opposing pannier portion when the storage system is configured to be carried by a user. Attachment means may additionally or alternatively be provided on the securing means adjacent the pannier portions.

[0017] According to a second aspect of the present invention, there is provided a storage system for selective attachment to a seating unit comprising: storage means comprising first and second pannier portions, each pannier portion having fastening means for releasable fastening of the pannier portions together; and, securing means in the form of first and second strips of material, wherein the storage system is arranged to be convertible between a first format in which the first and second pannier portions are fastened together by way of said fastening means and a second format in which the first and second pannier portions are spaced apart such that the securing means extends therebetween, and wherein at least one of the first and second strips is releasable such that the strips can be passed around a seating unit and fastened to form a closed loop around said seating unit such that the pannier portions are securable to the seating unit in the second condition.

[0018] Typically the pannier portions depend from respective sides of the seating unit when secured thereto.

[0019] The invention will now be described, by way of example only, with reference to the attached figures in which:

Figure 1a shows a perspective view of a storage system according to the invention;

Figure 1b shows a perspective view of the storage system of figure 1 when secured to a seating unit;

Figure 2 shows a side view of a pannier portion of the storage system of figure 1;

Figure 3 shows a side view of an alternative embodiment of a pannier portion;

Figure 4 shows a view of the opposite side of the pannier of either figure 2 or 3;

Figure 5 shows a perspective view of a storage system according to the present invention in a portable condition; and,

Figure 6 shows a side view of one of the pannier portions of figure 5.

[0020] In figure 1a a storage system is shown generally at 10. The storage system is intended for use with a sun bed, sun lounger, other recliner or the like. One type of sun lounger is shown at 11 in figure 1b. It will be appreciated, however, that the system could also be used with other seating units, such as deck chairs, other outdoor chairs etc. The storage system comprises storage means 12 for storing articles, and securing means 14 for securing the storage means 12 to the seating unit.

[0021] The storage means 12 comprises a pair of pannier portions 16, each of which includes a plurality of storage pockets 20, 22, 24, 26 for storing articles of different shapes, sizes and configurations. In the embodiment shown, the pannier portions 16 are of substantially identical configuration, which is described in relation to figures 2 to 4 below. However, it will be appreciated that each pannier portion could have a different arrangement of storage pockets, or the like.

[0022] The securing means 14 comprises first 50 and second 52 portions in the form of opposing strips of material.

[0023] The first portion 50 is configured for support by an upper surface of the seating unit 11 in operation as can be seen in figure 2 and comprises a plurality of generally parallel strips 54, typically having substantially equal length. Either end of each strip 54 is respectively secured to the upper edge 36 of the back 30 of a corresponding pannier portion 16. The strips 54 may be formed from any suitable textile material such as a webbing or the like but are preferably formed of an elastically stretchable material to allow use with chairs of different widths, and to allow a tight fit when secured around the seating unit in operation.

[0024] The length of the strips 54 is such that, in operation when the first portion 50 extends transversely across an upper surface of, and is supported by, the seating unit, each pannier portion 16 depends from a respective side of the seating unit for access by a user seated / reclining on the unit. Thus each pannier hangs over the opposing edges of the seat.

[0025] The number of strips 54, width and elasticity are configured such that in operation when the pockets contain articles, the weight of the pockets do not cause the first portion 50 of the attachment means to overstretch significantly, for example in a manner which causes the pockets to touch the ground. It will be appreciated that whilst three strips are shown and a plurality of strips described any suitable number of strips 54 may be provided including a single strip of suitable width and elasticity. In an embodiment which makes use of a single strip, the width of the strip would preferably be increased to extend substantially across the width of the panniers. Such a strips may be formed of a mesh or net type material which is lightweight, small in volume and which does not absorb a significant volume of moisture.

[0026] The second portion 52 of the attachment portion 14 is configured to extend around an underside of the seating unit and comprises first and second material strips 56, 58 which may or may not be elastically stretchable. One end of each strip 56, 58, is secured to the upper edge 36 of a corresponding pannier portion 16. It can be seen in figure 1 that each strip 56, 58 is attached to the right hand side of the upper edge of each respective pan-
The opposite end of each strip portion 56, 58 are each provided with mutually engageable fastening means 60, 62, for fixing the respective opposite ends to one another, in operation, to secure the means 14 around the seating unit, thereby securing the pannier portions 16 in a position accessible to the user. The fastening means 60, 62, comprises respective hook and eye pads of a material fastener of the type sold under the Velcro® trade mark or the like. Alternatively, or additionally the fastening means could comprise any suitable means, for example, mutually engageable clip portions, poppers, buttons/button holes or other conventional fasteners which will be familiar to a person skilled in the art.

In the embodiment shown, the rear panel 30 is stiffened to retain its shape although the rear panel may also be made simply of a flexible material the same as or similar to the material of the front panel portion 32. In such an embodiment, each pannier portion is substantially formed of a textile material such that each pannier is generally flexible and compliant.

The narrow and wide envelope pockets 22, 24 are similar in configuration to the main pocket 20, each having a respective flap 38, 40 for closing the pocket 22, 24. Unlike the main pocket 20, however, the flaps 38 and 40 cover only an upper portion of the pockets 22 and 24 when closed. The main flap 34 is larger in size and is substantially the whole of the front panel 32 when closed. This form of flap provides added security since the contents of the pockets are hidden from view and less readily accessible to a passer by. The main flap 34 has fastening means 35, which fastens with corresponding fastening means 37 on the body of the pannier, located for example on front panel. Such fastening means 35, 37 may comprise hook and eye fasteners, magnetic members, poppers, buttons, clip-fit, twist-fit members or the like.

The envelope pockets 22, 24 have a flexible back formed by the flexible front 32 of the main pocket 20. The narrow and wide envelope pockets 22, 24 are generally equal in height, relative to the orientation seen in Figure 2. Contrastingly, the pouch pocket 26 is shorter and is preferably approximately half the height of the two envelope pockets 22, 24, depending on requirements. The pouch pocket may be elasticated and may be configured to hold a can, bottle or the like.

One or more small loops 42 of material is provided adjacent the wide pocket 24, above the pouch pocket 26, for receiving an arm of a pair of sunglasses, spectacles or the like. The loop 42 has size, configuration and location such that in operation, the glasses may be hung from the loop with at least a portion of the glasses received in the pouch pocket 26, for the protection of a lens or lenses thereof.

The narrow pocket 22 is further provided with an internal hidden pocket 44 having fastener means 46 for opening and closing the pocket in use. The fastener means 46 may comprise any suitable means for example
a zip, poppers, button/button hole or the like. The hidden pocket 44 and/or any of the other pockets 22 or 24 may be thermally insulated such that an ice pack, freeze pack, or the like, stored in the hidden pocket 44, keeps articles in the pockets cool, and is insulated from heat from external sources such as, for example, the sun. The hidden pocket 44 is preferably formed in the narrow envelope pocket 22 on the flexible front 32 of the main pocket 20.

Alternatively or additionally the hidden pocket may be used to conceal valuable items such as wallets, mobile phones, jewellery, or the like.

The pockets 20, 22, 24, 26 may be of any suitable size and configuration. Preferably, however, the main pocket 20 is of size and configuration for receiving a newspaper, magazine or the like. Accordingly, each pannier preferably may have a width of 30 to 60 cm and typically a width of roughly 38 to 40 cm. Each pannier preferably has a height of 20 to 40 cm and typically a height of roughly 25 to 30 cm. The narrow pocket 22, when provided with an ice pack is preferably configured for receiving a drinks carton, bottle, can or the like. The wide pocket 24 is preferably configured for receiving a book, sun cream, CD or the like. The pouch pocket 26 is preferably configured for receiving loose change, a media player, a watch or the like, in addition to the portion of the glasses. The hidden pocket 44 is preferably configured to receive an ice pack, freeze pack, or the like.

In figure 3 another embodiment of a pannier portion suitable for use in the storage system 10, is shown generally at 70. The pannier portion 70 is generally similar to the pannier portion 16 described with reference to figure 2, and like parts are given like reference numerals. However in the embodiment of figure 3, a small additional pocket 72, is provided on the front of the wide envelope pocket 24, in the lower right corner as viewed. The additional pocket is provide for receiving additional small articles 72 such as earrings, rings, other jewellery, loose change, or the like. It will be appreciated additional pockets could be provided in this manner on the front of any of the pockets 22, 24, 26.

In addition, the main flap 34 is smaller in dimensions than the flap shown in figure 2 and covers only an upper portion of the front panel. In addition the pouch pocket 26 has been reversed such that it is on the inside surface of the front panel. Thus the pouch pocket is located inside the main pocket for increased security. Any of the other pockets may be located on the inside of the main pocket in this manner.

Conveniently, any of the embodiments may be provided with a pouch for receiving the storage system to form an enclosed package. The pouch may be separate or may form an integral part of one of the pannier portions.

It will be appreciated that whilst a plurality of separate embodiments are described the features of the embodiments are generally interchangeable to the extent practically possible.

Figure 4 shows the rear of one pannier portion. The rear panel 30 is provided with a large pocket 74 extending the full width of the pannier suitable for receiving a magazine or the like. The pannier portions are provided with attachment means 76 arranged along an upper and lower edge thereof. The attachment means are mutually engageable with corresponding attachment means on the opposing pannier portion allowing the two pannier portions to be fixed to one another for ease of carrying the storage system when not attached to a seat.

In the embodiment shown the attachment means comprise zip portions although any other conventional fastening means of the types described above may be used such as Velcro®, poppers, clips, buttons or the like. In another embodiment, the fasteners may be provided around the entire periphery of the pannier portions. Additionally or else alternatively the fasteners may be provided on the front side of the pannier portions such that the pockets 20, 22, 26, 28, 44 are located within a substantially enclosed package when the panniers are fastened together.

In such an embodiment the securing means may be configured either for concealment and storage within the enclosed package, or for use as a strap or the like to allow a user to carry the package on their shoulder as shown in figure 5. In figure 5, the upper zips 76 of each pannier have been fastened together and the strips 56 and 58 pulled upwardly and attached at fasteners 60 and 62 to provide a shoulder strap. Each strip 54 of the first securing portion hangs down between the pannier portions in this configuration and provides a loop in which a towel 78 or other articles of clothing or possessions can be held. This is particularly useful when a towel of other clothing has become wet or sullied and a user does not wish to store them with their other possessions in the main pockets of the panniers.

The lower zip 76 may be fastened if the dimensions of the towel 78 permit.

The manner in which the towel 78 or other articles can be supported is more clearly shown in figure 6. Each strip 54 is attached at the upper edge of the rear panel 30 and hangs down therefrom such that when the opposing pannier portions are attached together, each strip forms a substantially closed loop about the towel 78.

Alternatively, or additionally, one or both the pannier portions may be provided with handle means extending from the upper edge 36 to allow the package to be carried in the hand of the user.

Typical operation of the storage system will now be described, by way of example only.

In typical operation the storage system pannier portions are pre-packed with a plurality of desired articles such as sun-cream, drinks, media players, electronic games, reading material etc., by a user. Where the pannier portions are securable to one another to form a substantially enclosed package, the articles may be secured in the package for transport to a desired location such as a poolside lounger or the like. Alternatively or additionally the storage system may be placed in an associ-
ated pouch, if available, to form an enclosed package.

[0052] The storage system may then be carried to the desired location using the shoulder strap, handle means, or the like, where provided.

[0053] At the desired location any enclosed pouch is opened and the storage system secured to a seating unit such as a loafer, recliner or the like using the attachment means 14. The strips 54 of the first portion 50 are placed over an upper surface of the seating unit and the strips 56 and 58 of the second portion passed beneath it. The strips 56 and 58 of the lower portion are then secured to one another, such that the attachment means 14 forms a tight loop around the seating unit, and each pannier portion 16 depends from the attachment means 14 on a respective side of the seating unit. Where adjustor means are provided, the length of the first and/or second portion may be adjusted to tighten the loop.

[0054] Conveniently, where the seating unit has a cushion, or the like, the attachment means may be arranged to pass over an upper surface of the frame of the seating unit but beneath the cushion for enhanced comfort.

[0055] The user then uses the seating unit and the articles within the storage system to the extent required. Where the user wishes to move the seating unit, for example to take account of the movement of the sun when sun bathing, the storage system is moved along with the seating unit.

[0056] After the user has finished at the desired location the storage system is removed with the articles remaining in place in the associated pockets. Where provided for the system may be arranged to form a unitary package, as described previously by securing the two pannier portions to one another and/or using an associated pouch. The storage system may then be transported to another location as desired.

[0057] The storage system of the present invention is particularly desirable since it closely resembles the form of a conventional carrier such as a record bag or shoulder bag, whilst performing a useful dual purpose. This therefore avoids the stigma which is often attached to overly cumbersome carriers such as rigid boxes or the like and provides a relatively secure carrier for a user’s possessions which does not significantly depart from the appearance of a fashion accessory.

Claims

1. A storage system for a seating unit comprising:

   - storage means having first and second pannier portions for storing articles;
   - securing means in the form of at least one strip of material extending between said pannier portions for securing said storage means to said seating unit;
   - wherein each pannier portion is arranged to depend from the securing means on a respective side of said seating unit in use and said at least one strip of material is selectively securable around a portion of said seating;
   - and wherein said at least one strip of material comprises releasable fastening means such that the material strip can be passed around the seating unit and fastened so as to form a closed loop about said seating unit.

2. A storage system according to claim 1, wherein said securing means comprises a first material strip portion having first fastening means.

3. A storage system according to claim 2, wherein said first fastening means are fastenable to opposing fastening means provided on an opposing material strip portion.

4. A storage system according to claim 2, wherein said first fastening means are fastenable to opposing fastening means provided on one of said pannier portions.

5. A storage system according to any preceding claim, wherein said securing means comprise first and second strips of material, said first strip being configured to extend over an upper surface of said seating unit, and said second strip being configured to extend around an underside of said seating unit.

6. A storage system according to claim 5, wherein either said first or second material strip comprises opposing strip portions, each having corresponding fastening means attached thereto.

7. A storage system as claimed in claim 6, wherein said opposing strip portions are each attached at one end to a respective pannier portion and each have a free end to which is attached said fastening means such that said opposing portions are fixable to one another to form a continuous loop with the other of said first or second strip.

8. A storage system as claimed in claim 6 or 7, wherein said first and second opposing strip portions are fixable to one another using at least one of, a hook and eye pad pair, mutually engageable clip halves, and/or popper means.

9. A storage system according to claim 5, wherein said fastening means are provided on said second strip of material.

10. A storage system as claimed in any one of claims 5 to 9, wherein said pannier portions depend from an interface between said first and second strips of material.
11. A storage system as claimed in any preceding claim wherein said securing means is adjustable in length.

12. A storage system as claimed in claim 11 wherein said strip of material is elastically stretchable.

13. A storage system as claimed in claim 11 or 12, wherein said material strip is provided with an adjustor buckle through which said strip passes for allowing said length of said strip to be adjusted.

14. A storage system as claimed in any preceding claim, wherein said securing means comprises a plurality of strips arranged parallel to one another.

15. A storage system as claimed in any preceding claim wherein said pannier portions are securable to one another to form a unitary portable carrier for carrying articles stored therein.

16. A storage system as claimed in claim 15, wherein the pannier portions each comprise releasable attachment means located along at least one edge of said pannier portion.

17. A storage system as claimed in claim 15 or 16 wherein said securing means is configured to act as a shoulder strap for carrying said carrier.

18. A storage system as claimed in claim 15 wherein said securing means comprises first and at least one further material strip, said first strip being configured to act as a shoulder strap for said carrier and said at least one further strip being configured to form a substantially closed loop between said panniers for supporting one or more articles therein during transit.

19. A storage system as claimed in any preceding claim, wherein each pannier portion comprises a plurality of pockets of different sizes for holding said articles.

20. A storage system as claimed in claim 19, wherein at least one of said pockets comprises a large pocket extending a full width of said pannier portion, the other remaining pocket being located on said pocket.

21. A storage system as claimed in any preceding claim, wherein each pannier portion is substantially formed of a textile material.

22. A storage system as claimed in claim 21, wherein said pannier portions have a stiffened back portion.

23. A storage system for selective attachment to a seating unit comprising:

   - storage means comprising first and second pannier portions, each pannier portion having attachment means for releasable attaching said pannier portions together; and,
   - securing means in the form at least one strip of material, wherein the storage system is arranged to be convertible between a first condition in which the first and second pannier portions are releasably attached together by way of said attachment means and a second format in which the first and second pannier portions are spaced apart such that the securing means extends therebetween, and wherein said strip of material is releasable such that the storage system can be secured to said seating unit in the second condition by passing said strip around said seating unit and subsequently fastening said strip so as to form a closed loop around said seating unit.
# Documents Considered to Be Relevant

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document with indication, where appropriate, of relevant passages</th>
<th>Relevant to claim</th>
<th>Classification of the Application (IPC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 6 149 234 A (DANIELS DOROTHY M [US]) 21 November 2000 (2000-11-21) * column 4, lines 43-51, 60 - column 5, lines 2,24-32,44-57; figures 1,6</td>
<td>1-5,23</td>
<td>INV. A45C3/10 A47C1/14</td>
</tr>
<tr>
<td>Y</td>
<td>US 2004/075315 A1 (PATRICK TERI [US]) 22 April 2004 (2004-04-22) * paragraphs [0019], [0023]; figure 1</td>
<td>1-5,23</td>
<td></td>
</tr>
</tbody>
</table>

**Technical Fields Searched (IPC)**
- A45C
- A47C

The present search report has been drawn up for all claims.

**Place of search**
- Munich

**Date of completion of the search**
- 7 February 2008

**Examiner**
- Lassen, Steen D.
This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 07-02-2008.

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

<table>
<thead>
<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
</tr>
</thead>
<tbody>
<tr>
<td>US 6149234 A</td>
<td>21-11-2000</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>US 4553785 A</td>
<td>19-11-1985</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>US 2004075315 A1</td>
<td>22-04-2004</td>
<td>NONE</td>
<td></td>
</tr>
</tbody>
</table>

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82.