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(54) A MULTIFUNCTIONAL TRANSPORTABLE CONTAINER

(57) A multifunctional transportable container comprising at least one backrest (4), at least one main compartment (5) and at least one outer surface (6).

The container (1) also comprises at least one seat (10) rotoidally coupled to at least one first coupling point (12) of the container (1). The seat (10) is shaped to pass through rotation from at least a first configuration in which it is positioned near the outer surface (6) to at least a second configuration in which it is rotated towards the

backrest (4) so as to create a seating.

In addition, the container (1) also comprises a stabilizing element (13), rotoidally coupled to at least a second coupling point (15) of the container (1), shaped to pass through rotation from at least a third configuration in which the stabilizing element (13) is positioned near the outer surface (6) to at least a fourth configuration in which it is rotated to create a rest body for the backrest (4).

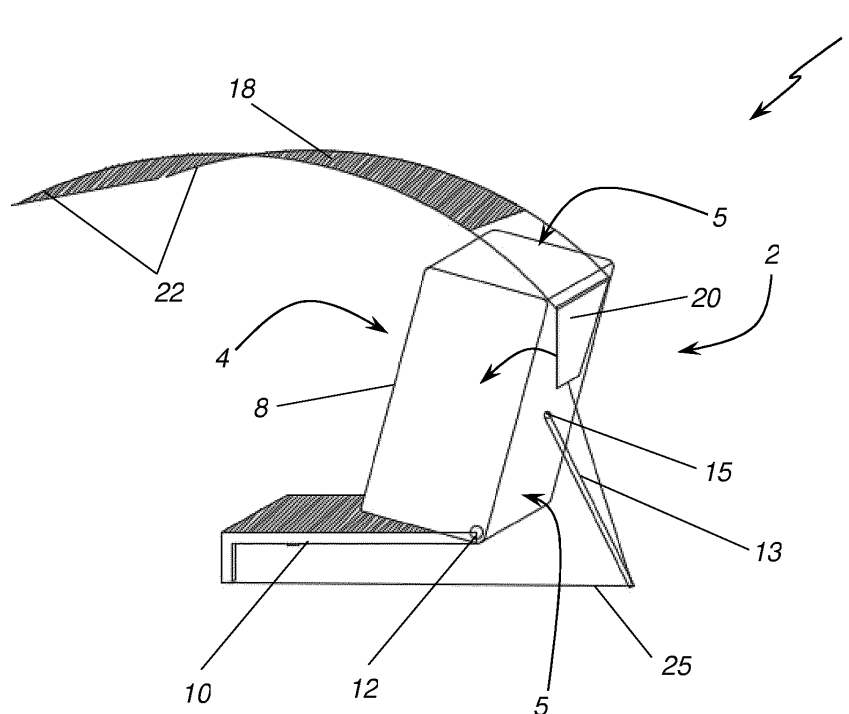


FIG. 1

EP 4 548 801 A1

Description

Field of application

[0001] The present invention is generally applicable to the technical field of the articles transportable by people and, in particular, refers to a multifunctional transportable container.

Prior art

[0002] In the luggage sector, the use of suitcases, trunks, trolleys, backpacks and the like for the transport of objects is well widespread, and, recently, multifunctional luggage products have found widespread use, that is, that luggage able to satisfy needs also differing from simply transporting objects.

[0003] In the prior art, for example, there are particular backpacks that integrate a structure in which an umbrella can be housed or with which the umbrellas themselves are associated, so as to allow a person to protect himself/herself from rainfall without using their hands.

[0004] However, such known devices comprise complex structures that necessarily involve considerable costs. Moreover, the integration of umbrellas does not allow to obtain adequate cover unless the weight of the backpack itself is significantly burdened.

[0005] In addition thereto, in the prior art there are other luggage products, generally backpacks, which are coupled with systems capable of creating a seating for a user in order to allow them to rest or stop easily even in impervious places.

[0006] However, even in this case, the known systems are very complex and overload the bags and/or backpacks to which they are applied with the consequent transport difficulties.

[0007] In addition, the known multifunctional suitcases or backpacks provide a seating system not suitable, for example, for creating a deckchair suitable for accommodating a lying person.

[0008] The limitations and complexities of realization and use of these systems entail high costs and a cautious interest on the part of the people who have inevitably limited their dissemination.

Presentation of the invention

[0009] Aim of the present invention is to provide a multifunctional transportable container that allows to at least partially overcome the drawbacks highlighted above.

[0010] In particular, an aim of the present invention is to provide a transportable container capable of carrying multiple objects.

[0011] Another aim of the present invention is to provide a container that allows a comfortable seating to be created for a user in case of need.

[0012] A further aim of the present invention is to

provide a container in which the seating system is simpler, lighter and less cumbersome than the known equivalent devices.

[0013] Another aim of the present invention is to provide a transportable container shaped to also provide a user with a cover.

[0014] The aforesaid aims, as well as others that will appear more clearly below, are achieved by a multifunctional transportable container in accordance with the following claims which are to be considered an integral part of the present patent.

[0015] In particular, it comprises at least one backrest, at least one main compartment suitable for containing the objects to be transported and at least one outer surface opposite the backrest.

[0016] Furthermore, the container of the invention comprises at least one seat rotoidally coupled to at least a first coupling point of the container. This seat is shaped to pass through rotation from at least a first configuration in which it is positioned near the outer surface so as not to hinder the transport of the container itself, to at least a second configuration in which it is instead rotated towards the backrest so as to create a seating for a user including the seat and the backrest.

[0017] In addition thereto, the container also comprises at least one stabilizing element rotoidally coupled to at least a second coupling point of the container. Similarly to what has been said for the seat, the stabilizing element is also shaped to pass through rotation from at least a third configuration in which it is positioned near the outer surface so as not to hinder transport, to at least a fourth configuration in which it is rotated to create a rest body for the backrest so as to support it stably at any inclination.

[0018] Advantageously, the container of the invention allows multiple objects to be transported within the main compartment.

[0019] Furthermore, still advantageously, the seat operatively coupled to the container itself makes it possible to easily create a seating for a person. In fact, the movement of the seat by rotation thereof simplifies the operations compared to the equivalent devices present in the prior art.

[0020] Moreover, still advantageously, the presence of the stabilizing element, also easily moved by rotation, allows the backrest to be arranged according to the desired inclination. In this way it is possible to improve the comfort of the seating while maintaining its stability.

[0021] The ease of the coupling and of the movement from one configuration to the other of the seating and of the stabilizing element make, still advantageously, the container of the invention lighter and easier to use compared to known containers.

[0022] In addition, still advantageously, the ease of the system for creating the seating that provides for the seat and the stabilizing element to pass from one configuration to another by rotation implies a limitation of the construction costs of the container of the invention.

[0023] In light of the above, it is evident that the described purposes are also achieved by a kit for completing a transportable container comprising at least one main compartment suitable for containing the objects to be transported and at least one outer surface opposite the backrest.

[0024] In particular, the kit of the invention comprises at least one seat rotoidally coupled to at least one first coupling point of the container. This seat is shaped to pass through rotation from at least a first configuration in which it is positioned near the outer surface so as not to hinder the transport of the container itself, to at least a second configuration in which it is instead rotated towards the backrest so as to create a seating for a user including the seat and the backrest.

[0025] In addition thereto, the container also comprises at least one stabilizing element rotoidally coupled to at least a second coupling point of the container. Similarly to what has been said for the seat, the stabilizing element is also shaped to pass through rotation from at least a third configuration in which it is positioned near the outer surface so as not to hinder transport, to at least a fourth configuration in which it is rotated to create a rest body for the backrest so as to support it stably at any inclination.

Brief description of the drawings

[0026] Further features and advantages of the invention will become more apparent in the light of the detailed description of some preferred, but not exclusive, embodiments of a multifunctional transportable container according to the invention, illustrated by way of non-limiting example with the aid of the accompanying drawing tables in which:

figures 1 to 3 represent the container of the invention with seating, stabilizing element and covers arranged in different configurations.

Detailed description of an exemplary preferred embodiment

[0027] With reference to the cited figures, a multifunctional transportable container **1** according to the invention is described. According to the embodiment of the invention being described, said container **1** is a backpack **2**, obviously this aspect is not to be understood as limiting for different embodiment variants of the invention where, for example, the container is another luggage product (a bag, a trolley, a suitcase).

[0028] According to one aspect of the invention, the container **1** comprises a backrest **4**, a main compartment **5** and an outer surface **6**. In particular, the backrest **4** typically, but not necessarily, comprises a semi-rigid panel **8** shaped to facilitate resting the backrest **4** itself on the back of a user.

[0029] The compartment **5** is shaped to store the objects to be transported and is interposed between the

backrest **4** and the outer part **6**. In other words, the outer surface **6** is opposite the backrest **4** with respect to the main compartment **5**.

[0030] Advantageously, the main compartment **5** allows, as mentioned, to store one or more objects inside in order to easily transport them, thus fulfilling the primary function of the luggage products.

[0031] Obviously, the number of compartments is not to be considered limiting for different embodiment variants of the invention where, for example, the container comprises more than one compartment.

[0032] According to another aspect of the invention, the container **1** also comprises a seat **10** rotoidally coupled to a first coupling point **12** of the container **1** itself, i.e. coupled so as to allow its rotation. This seat **10** is shaped to be arranged, through rotation, at least according to two configurations: a first configuration in which the seat **10** is positioned near the outer surface **6** so as not to hinder the transport of the container **1** (see Fig. 3) and a second configuration in which the seat **10** is rotated towards the backrest **4** so as to create a seating together with the backrest **4** itself (see Figs. 1 and 2).

[0033] In other words, in the second configuration the seat **10** rotates shifting towards the backrest **4** until it is arranged so that the seat **10** itself and the backrest **4** of the container **1** form a chair for the user.

[0034] According to the embodiment of the invention being described, the seat **10** is extendable, for example by means of telescopic poles, so as to allow an extension of the seating and therefore allow a person to lie down as if he/she were in a deckchair. Obviously, this aspect should not be understood as limiting to different embodiment variants of the invention where, for example, the seat is not extendable.

[0035] According to a further aspect of the invention, the container **1** of the invention also comprises a stabilizing element **13** rotoidally coupled to a second coupling point **15** of the container **1** itself. Similar to what has been said for the seat **10**, the stabilizing element **13** is also shaped to pass through rotation from a third configuration in which it is positioned near the outer surface **6** (see Figs. 2 and 3), so as not to hinder the transport of the container by a person, to a fourth configuration in which the stabilizing element **13** creates a rest body for the backrest **4** so as to support it at any inclination (see Fig.1).

[0036] In other words, in the fourth configuration the stabilizing element **13** is arranged so as to prop up the backrest **4** by supporting its weight and thus make the seating created in the second configuration stable.

[0037] Advantageously, therefore, the container **1** of the invention allows, in addition to the transport of one or more objects, to rotate the seat **10** and the stabilizing element **13** to create a kind of chair/deckchair including a backrest **4**.

[0038] The ease of the coupling of the seat **10** and of the stabilizing element **13**, typically but not necessarily made by means of a pin not represented in the figures, allow, still advantageously, to facilitate the movement of

the same.

[0039] Still advantageously, the use of the stabilizing element **13** improves the support of the backrest **4** compared to the known devices by allowing it to be tilted at any angle.

[0040] According to the embodiment being described, the container **1** also comprises constraint mechanisms, not represented in the figures, which allow the seat **4** and/or the stabilizing element **13** to be locked in the respective configurations. Obviously, the nature of the constraint mechanisms should not be understood as limiting different embodiment variants of the invention where, for example, they comprise mechanical and/or magnetic constraints.

[0041] According to another aspect of the invention, the container **1** comprises a cover **18** operatively coupled to the container **1** itself. In particular, the cover **18** is shaped to pass from a fifth configuration in which it is also positioned near the outer surface **6** so as not to hinder the transport of the container **1** (see Figs. 2 and 3), and according to a sixth configuration in which it is arranged so as to cover a user positioned on the seat **10** (see Fig. 1) arranged in the second configuration.

[0042] Advantageously, the cover **18** allows an additional functionality to be added to the container **1** of the invention, which is thus shaped to create a user protection area.

[0043] In particular, according to the embodiment of the invention being described, the cover **18** comprises elastic material capable of guaranteeing a protection of at least 50 UV, typically but not necessarily such material comprises lycra. Obviously, the material of the cover should not be understood as limiting different embodiment variants of the inventions, which guarantee the UV protection and elasticity of the cover.

[0044] For example, according to an embodiment variant of the invention not represented in the figures, the cover comprises waterproof material.

[0045] According to the embodiment being described, the invention also comprises a bag **20**, typically but not necessarily trapezoidal in shape, coupled to the outer surface **6** and shaped to contain therein the cover **18**.

[0046] Thus, advantageously, the bag **20** allows the cover **18** arranged according to the sixth configuration to be stored, limiting its overall dimensions and preventing it from hindering the transport of the container **1**.

[0047] Furthermore, again according to the embodiment being described, the cover **18** comprises telescopic poles **22** which advantageously allow it to be extended so as to increase the covered surface while maintaining stiffness.

[0048] In addition thereto, the cover **18** optionally comprises a butterfly-like adjustment system, also not represented in the figures, which allows to adjust the width of the cover **18**, distancing the telescopic poles **22** from each other, so as to further increase the covered surface.

[0049] According to another aspect of the invention, the transportable container **1** also comprises a strap **25**

operatively coupled to the stabilizing element **13**. This strap **25**, typically but not necessarily made of elastic material, allows the stabilizing element **13** to be moved by adjusting the angle of rotation by tensioning the strap **25** itself.

[0050] Then, advantageously, by tensioning the strap **25**, for example by pulling it, it is possible to move the stabilizing element **13** from the third to the fourth configuration, adjusting the angle of the stabilizing element **13** and, consequently, the inclination of the backrest **4**.

[0051] According to a further aspect of the invention, the strap **25** is also operatively coupled to the cover **18** and by means of its tensioning it is also possible to adjust the arrangement of the cover **18**.

[0052] Moreover, according to the embodiment of the invention being described, the adjustment of the angle of rotation of the stabilizing element **13** and the arrangement of the cover **18** by tensioning the strap **25** are integral.

[0053] In fact, the tensioning of the strap **25**, when it is operatively coupled to both the stabilizing element **13** and the cover **18**, inevitably produces an effect on both by integrally adjusting the aforesaid angle and arrangement.

[0054] Still advantageously, this allows to optimize the surface covered by the cover **18** as a function of the inclination of the backrest **4** and, therefore, of the position of a seated person.

[0055] Operationally, the multifunctional transportable container **1** can be configured for easy transport when the seat **10**, the stabilizing element **13** and/or the cover **18** are respectively arranged according to the first, third and fifth configuration.

[0056] In case of a stop, the user can move the seat **10** and the stabilizing element **13** by rotating them with respect to the respective coupling points **12** and **15** to arrange them respectively according to the second and fourth configuration so as to set up a chair/deckchair on which to relax.

[0057] In addition, the user can remove the cover **18** from the possible bag **20** to protect themselves from shade or bad weather.

[0058] These operations, in the embodiment of the invention being described, are performed by tensioning the strap **25**, which is operatively coupled to the cover **18** and the stabilizing element **13** to control its angle of rotation and arrangement.

[0059] This strap **25** can also be generally coupled to the seat **10** so as to allow the user to control its tensioning even while sitting.

[0060] In light of the above, it is evident that the object of the invention is also a kit for completing, not represented in the figures, a transportable container comprising a backrest, a main compartment and an outer surface as reported above.

[0061] In particular, said kit comprises a seat **10** coupleable rotoidally to a first coupling point **12** of the container. The seat **10** is shaped to pass through rotation from a first

configuration in which it is positioned near the outer surface so as not to hinder the transition to a second configuration in which it is rotated towards the backrest so as to create a seating for a user.

[0062] In addition, the kit also comprises a stabilizing element **13**, coupleable rotoidally to a second coupling point **15** of the container, and shaped to pass through rotation from a third configuration, in which it is positioned near the outer surface so as not to hinder the transport of the container, to a fourth configuration in which it is rotated to create a rest body for the backrest so as to support it stably at any inclination.

[0063] In addition thereto, the kit also comprises a cover **18** operatively coupleable to the container and shaped to pass from at least a fifth configuration, in which it is positioned near the outer surface so as not to hinder the transport of the container, to at least a sixth configuration in which it is arranged so as to cover at least one user sitting on the seat when arranged according to the second configuration.

[0064] Still, the kit comprises a strap **25** operatively coupled to the stabilizing element **13** and/or to the cover **18** and suitable to respectively allow the adjustment of the angle of rotation and to adjust the arrangement by tensioning the strap **25** itself.

[0065] A complete description of the complete kit of the invention is omitted here as it would be repetitive of what has already been written on the subject during the description of the multifunctional transportable container **1**. What is observed is that it allows to achieve all the advantages mentioned above.

[0066] In light of the foregoing, it is therefore understood that the multifunctional transportable container of the invention achieves all the set aims.

[0067] In particular, it firstly allows to transport multiple objects inside the main compartment thereof.

[0068] In addition, the container of the invention allows a seating to be created for a user to be used in case of need but which does not in any way hinder the transport of the container itself.

[0069] Still, the container of the invention comprises a system for creating the seating that is based on the rotation of the seat and of the stabilizing element, thus making the operations for creating the seating very easy.

[0070] Consequently, the container of the invention is very light and the production costs are limited.

[0071] The invention is susceptible to numerous modifications and variations, all falling within the appended claims. All the details may be replaced by other technically equivalent elements, and the materials may be different according to requirements, without departing from the scope of protection of the present invention.

Claims

1. A multifunctional transportable container comprising:

- at least one backrest **(4)**;
- at least one main compartment **(5)** for storing one or more objects in said one container **(1)**;
- at least one outer surface **(6)** of said one container **(1)** opposite said at least one backrest **(4)** with respect to said at least one main compartment **(5)**, said a multifunctional transportable container **(1)** being **characterised by** comprising:
 - at least one seat **(10)** rotoidally coupled to at least one first coupling point **(12)** of said one container **(1)**, said at least one seat **(10)** being shaped to pass through rotation from at least one first configuration in which said at least one seat **(10)** is positioned near said at least one outer surface **(6)** so as not to hinder the transport of said one container **(1)**, to at least one second configuration in which said at least one seat **(10)** is rotated towards said at least one backrest **(4)** so as to create a seating for a user comprising said at least one seat **(10)** and said at least one backrest **(4)**;
 - at least one stabilizing element **(13)** rotoidally coupled to at least one second coupling point **(15)** of said one container **(1)**, said at least one stabilizing element **(13)** being shaped to pass through rotation from at least a third configuration in which said at least one stabilizing element **(13)** is positioned near said at least one outer surface **(6)** so as not to hinder the transport of said one container **(1)**, to at least a fourth configuration in which said at least one stabilizing element **(13)** is rotated to create a support body for said at least one backrest **(4)** so as to stably support said at least one backrest **(4)** at any inclination.

2. Multifunctional transportable container according to claim 1, comprising at least one cover **(18)** operatively coupled to said at least one container **(1)**, said at least one cover **(18)** being shaped to pass from at least a fifth configuration in which said at least one cover **(18)** is positioned near said at least one outer surface **(6)** so as not to hinder the transport of said one container **(1)**, to at least a sixth configuration in which said at least one cover **(18)** is arranged so as to cover at least one user sitting on said seat **(10)** when arranged according to said second configuration.

3. Multifunctional transportable container according to claim 1 or 2, comprising at least one strap **(25)** operatively coupled to said at least one stabilizing element **(13)** and adapted to allow the adjustment of the angle of rotation of said at least one stabilizing element **(13)** by a user by tensioning said at least one strap **(25)**.

4. Multifunctional transportable container according to

claim 3, wherein said at least one strap (25) is also operatively coupled to said at least one cover (18) so as to adjust the arrangement of said at least one cover (18) by tensioning said at least one strap (25).

5. Multifunctional transportable container according to claim 4, wherein said adjustment of the angle of rotation of said at least one stabilizing element (13) and said adjustment of the arrangement of said at least one cover (18) by means of said at least one strap (25) are integral so as to optimize the area covered by said at least one cover (18).
6. Multifunctional transportable container according to one or more of claims 2 to 5, comprising at least one bag (20) coupled to said at least one outer surface (6) of said one container (1) and shaped to receive therein said at least one cover (18) when arranged according to said fifth configuration.
7. Multifunctional transportable container according to one or more of claims 2 to 6, wherein said at least one cover (18) comprises one or more telescopic poles (22).
8. A kit for completing a transportable container comprising:

- at least one backrest;
- at least one main compartment for storing one or more objects in the container;
- at least one outer surface of the container opposite the backrest with respect to the main compartment,

said a completion kit being **characterized by** comprising:

- at least one seat (10) couplable rotoidally to at least a first coupling point of the container, said at least one seat (10) being shaped to pass through rotation from at least a first configuration in which said at least one seat (10) is positioned near the outer surface so as not to hinder the transport of the container, to at least a second configuration in which said at least one seat (10) is rotated towards the backrest so as to create a seating for a user comprising said at least one seat (10) and the backrest;
- at least one stabilizing element (13) couplable rotoidally to at least one second coupling point of the container, said at least one stabilizing element (13) being shaped to pass through rotation from at least one third configuration in which said at least one stabilizing element (13) is positioned near the outer surface so as not to hinder the transport of the container, to at least one fourth configuration in which said at least one stabiliz-

ing element (13) is rotated to create a rest body for the backrest so as to stably support the backrest at any inclination.

9. Completion kit according to claim 8, comprising at least one cover (18) operatively coupled to the container, said at least one cover (18) being shaped to pass from at least a fifth configuration in which said at least one cover (18) is positioned near the outer surface so as not to hinder the transport of the container, to at least a sixth configuration in which said at least one cover (18) is arranged so as to cover at least one user sitting on said seat (10) when arranged according to said second configuration.
10. Multifunctional transportable container **characterized by** comprising at least one strap (25) operatively coupled to said at least one stabilizing element (13) and/or to said at least one cover (18) and suitable to allow the adjustment of the angle of rotation of said at least one stabilizing element (13) by a user and to adjust the arrangement of said at least one cover (18) by tensioning said at least one strap (25).

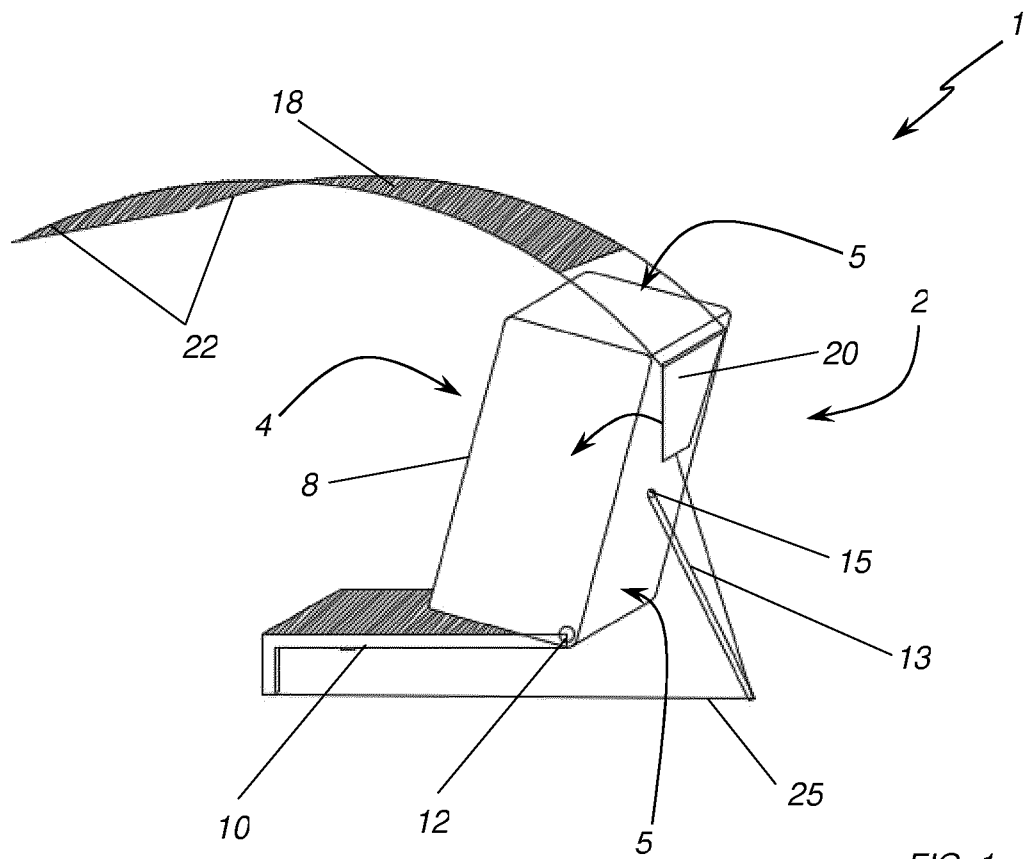


FIG. 1

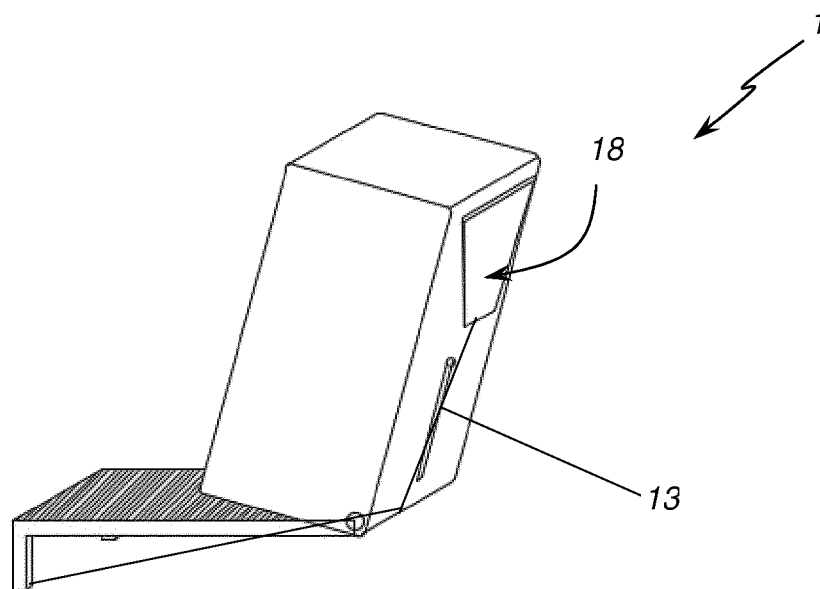
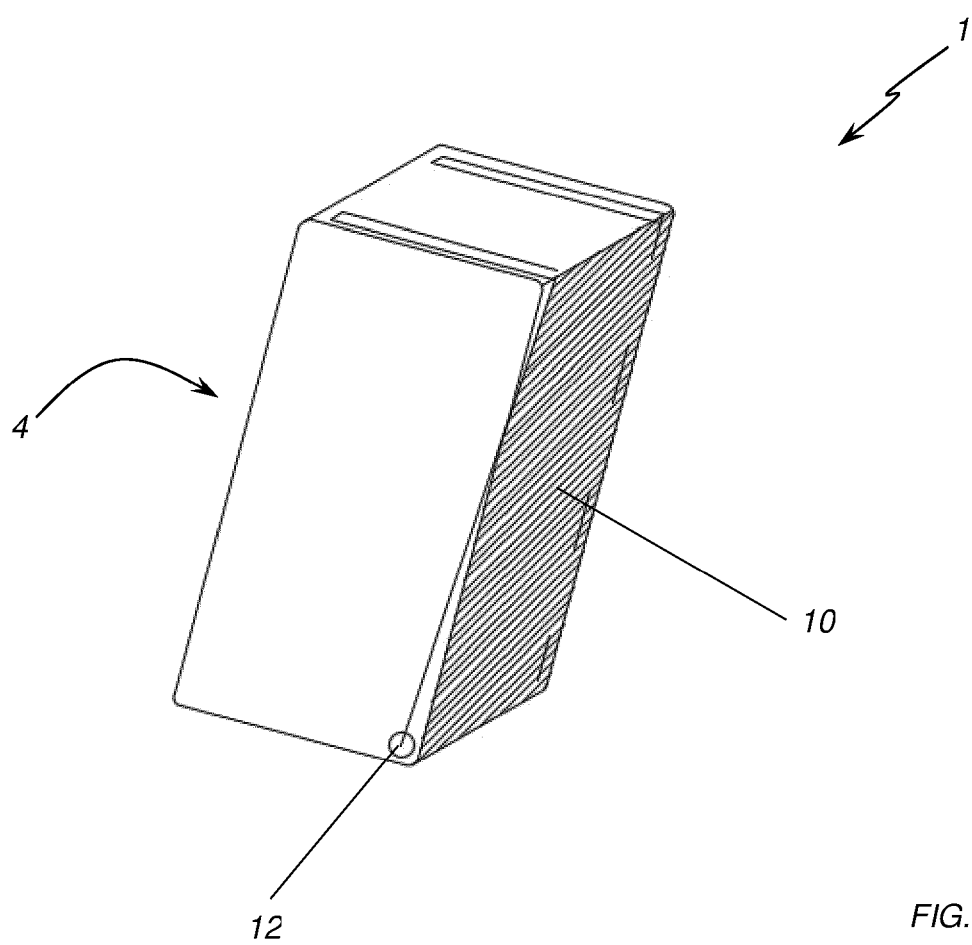


FIG. 2





EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			A45C A45F A47C
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		20 January 2025	Nicolás, Carlos
CATEGORY OF CITED DOCUMENTS			
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 24 21 0199

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