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B65D 51/28 (2006.01)

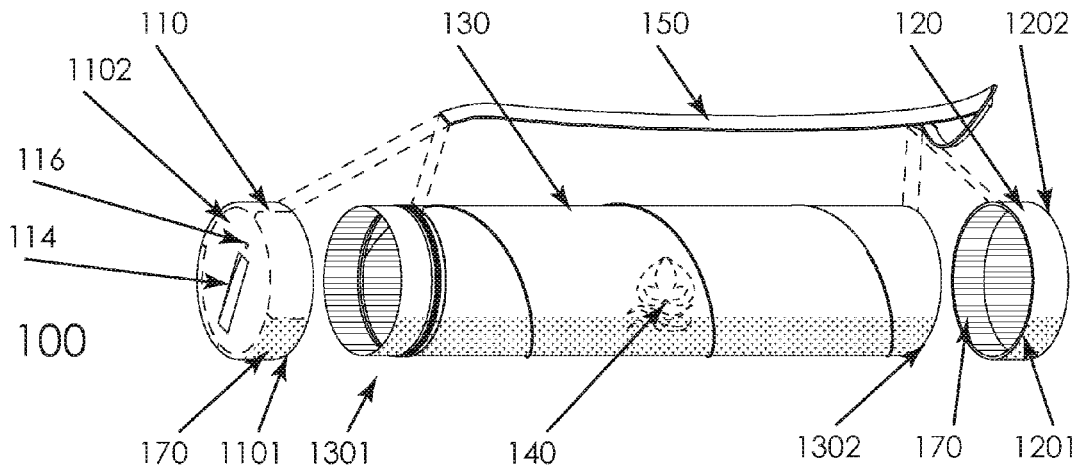
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CPC *A45C 13/03* (2013.01); *A45C 3/001*
(2013.01); *A45C 13/30* (2013.01); *A45C*
7/0077 (2013.01); *A45F 3/005* (2013.01);
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B65B 25/20 (2013.01); *A45C 13/18* (2013.01);
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(2013.01); *B65D 51/245* (2013.01); *B65D*
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A45F 2003/008 (2013.01); *B65D 2525/283*
(2013.01)

(57)

ABSTRACT

The disclosure provides a travel bag comprising a main body extending from a first end to a second end, and configured to assume an extended configuration for transportation of one or more elongated articles, and a compressed configuration for use other than transportation of the elongated article, wherein a distance between the first end and the second end is larger in the extended configuration than in the compressed configuration. The disclosure further relates to methods of storing garments and methods of displaying garments.



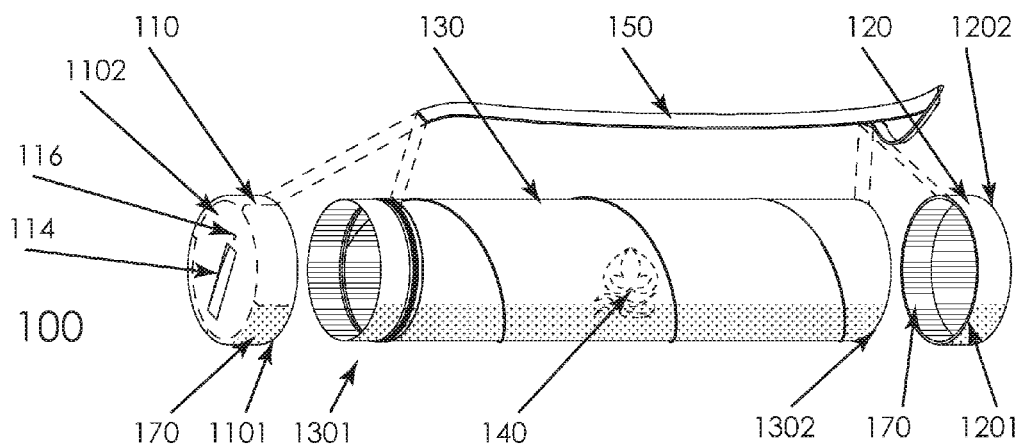


FIG. 1A

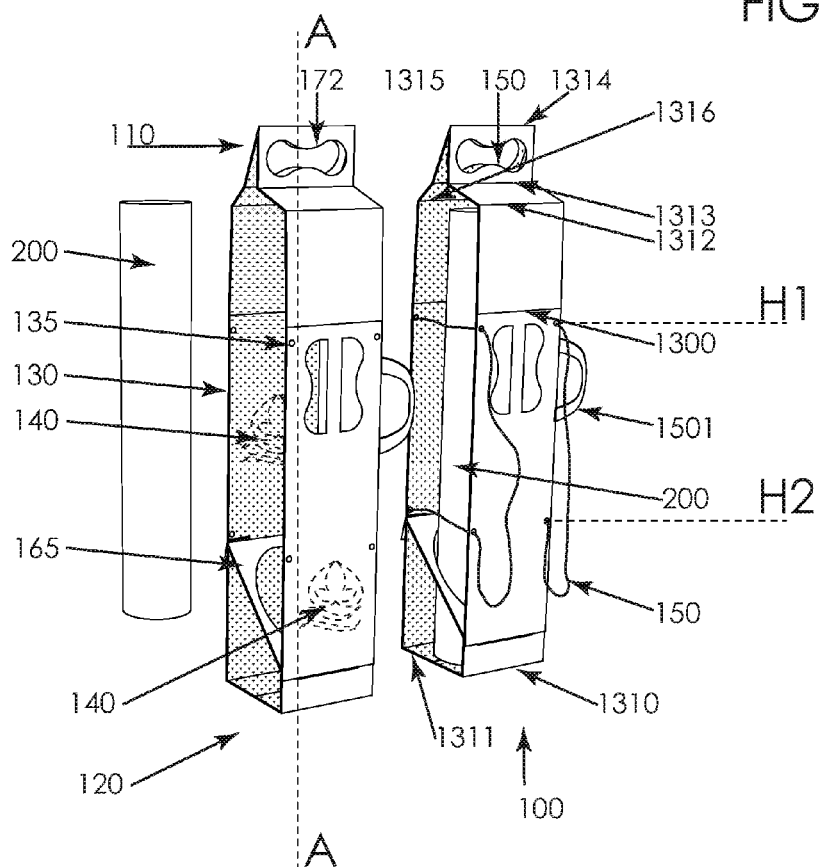
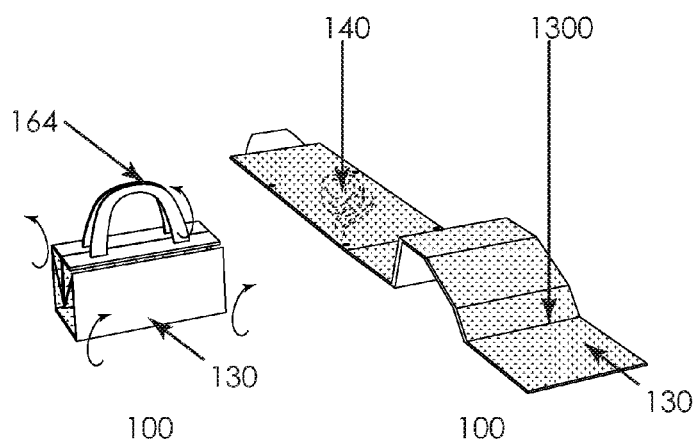
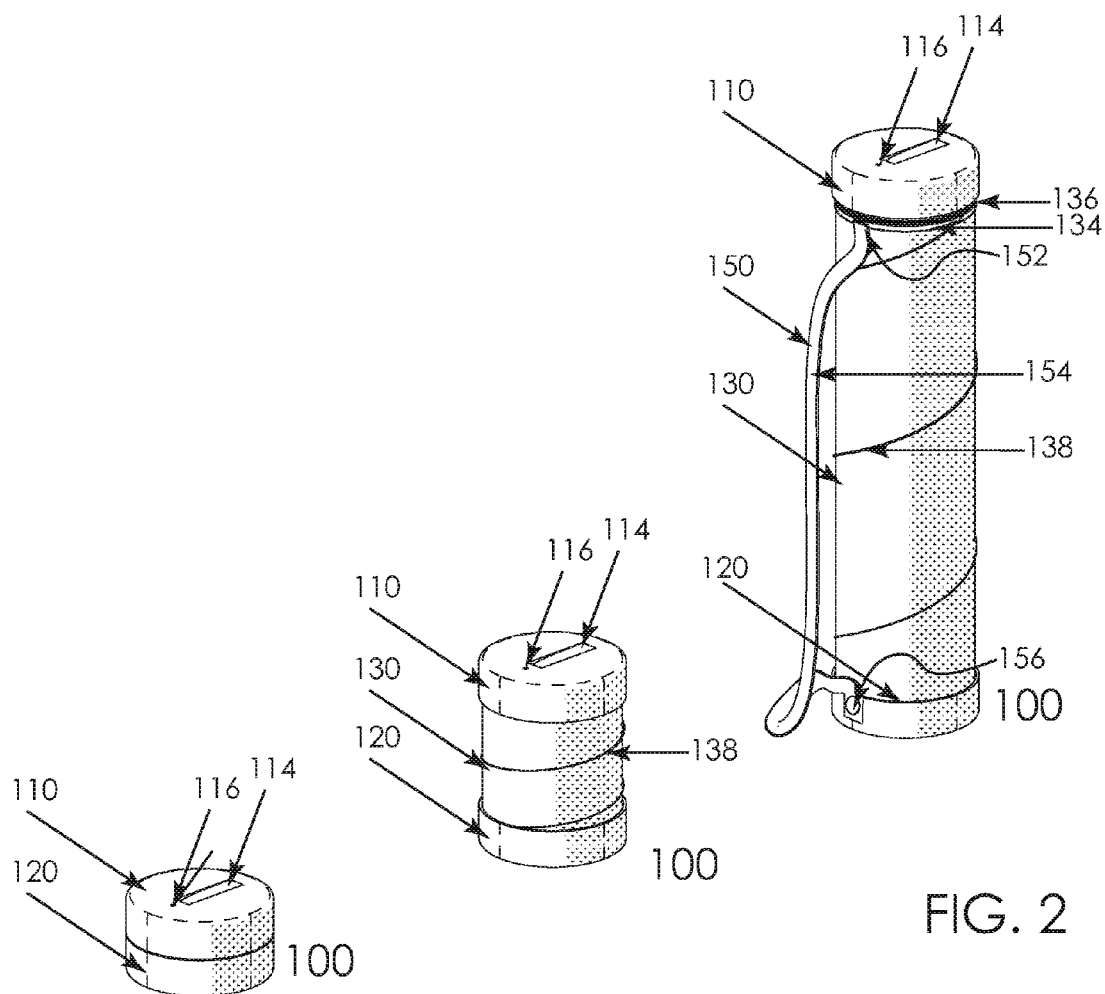


FIG. 1B



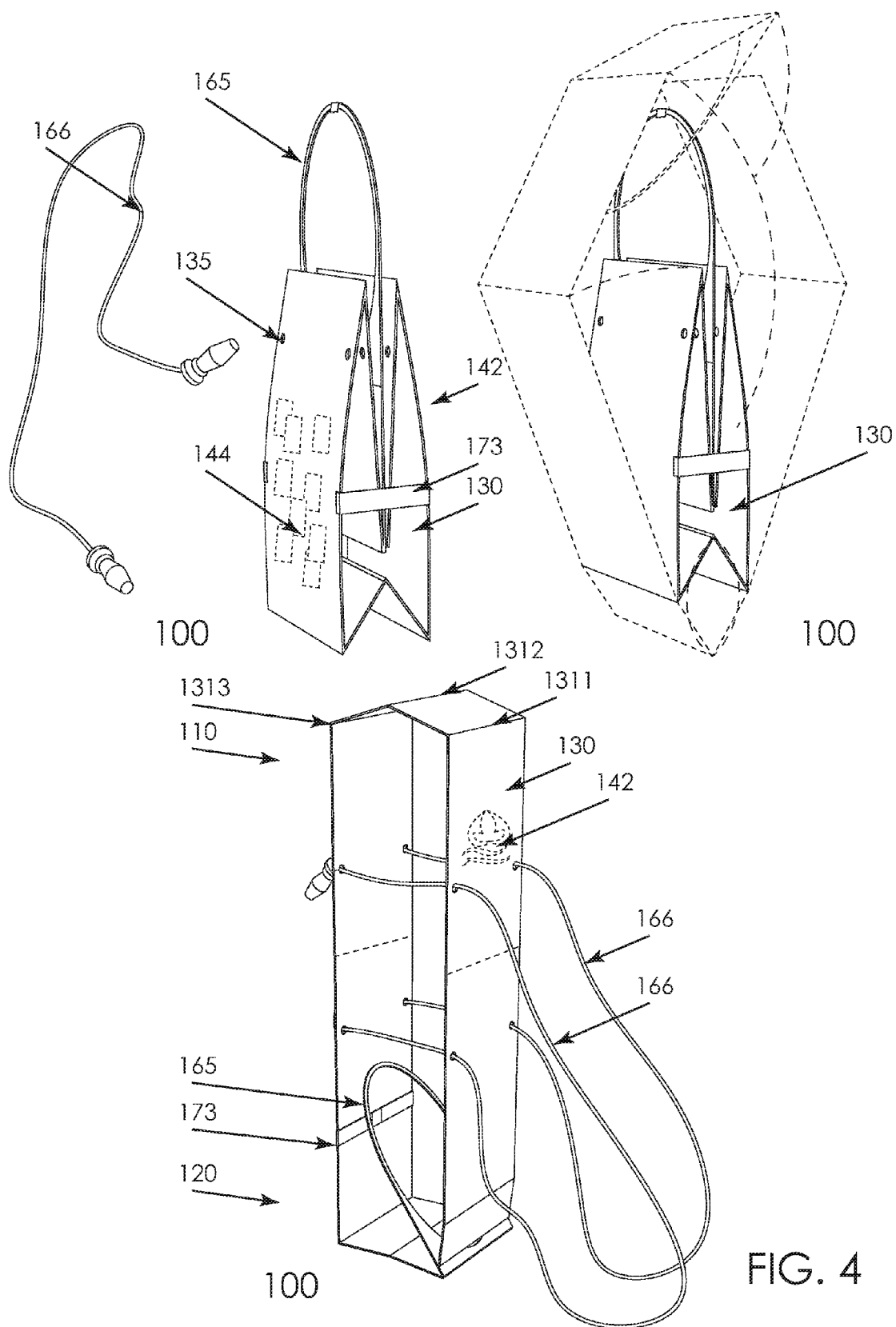


FIG. 4

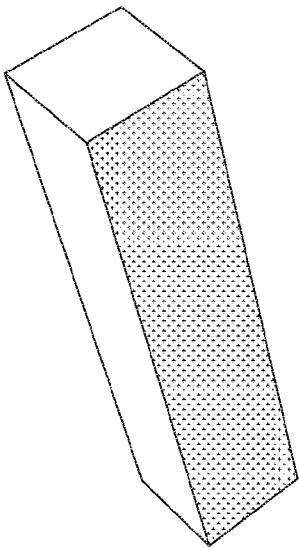


FIG. 5a

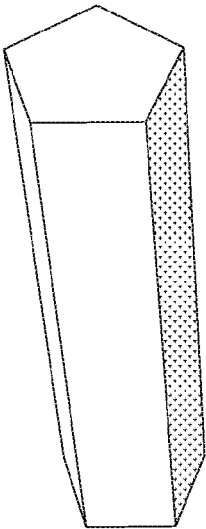


FIG. 5b

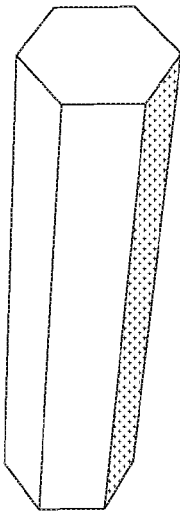


FIG. 5c

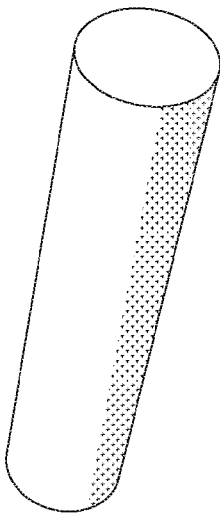


FIG. 5d

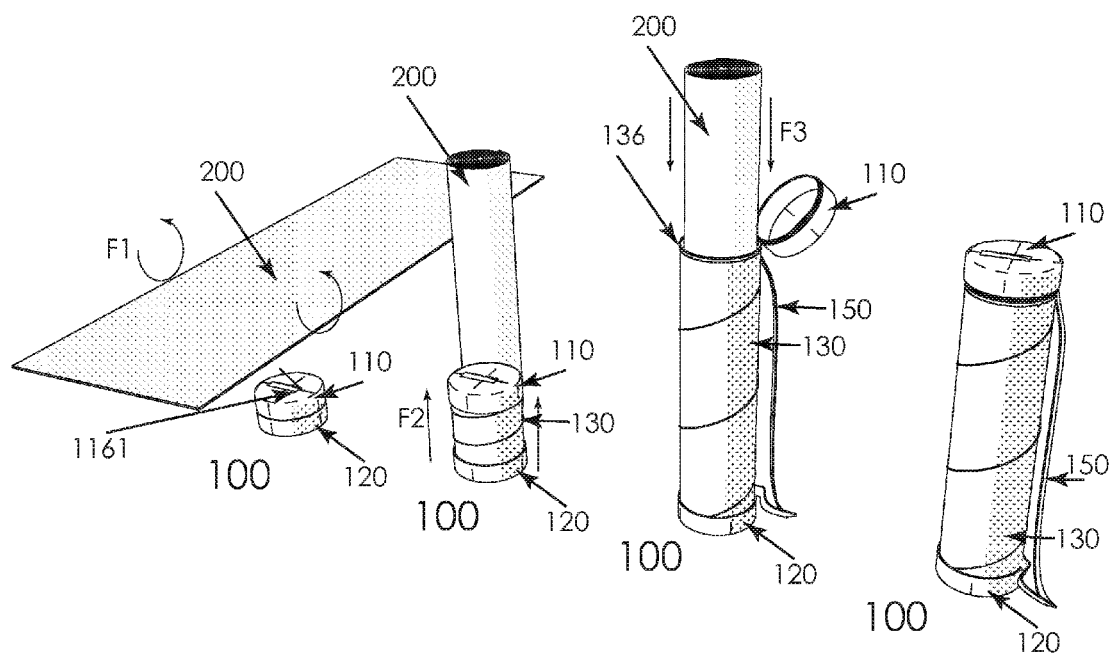


FIG. 6

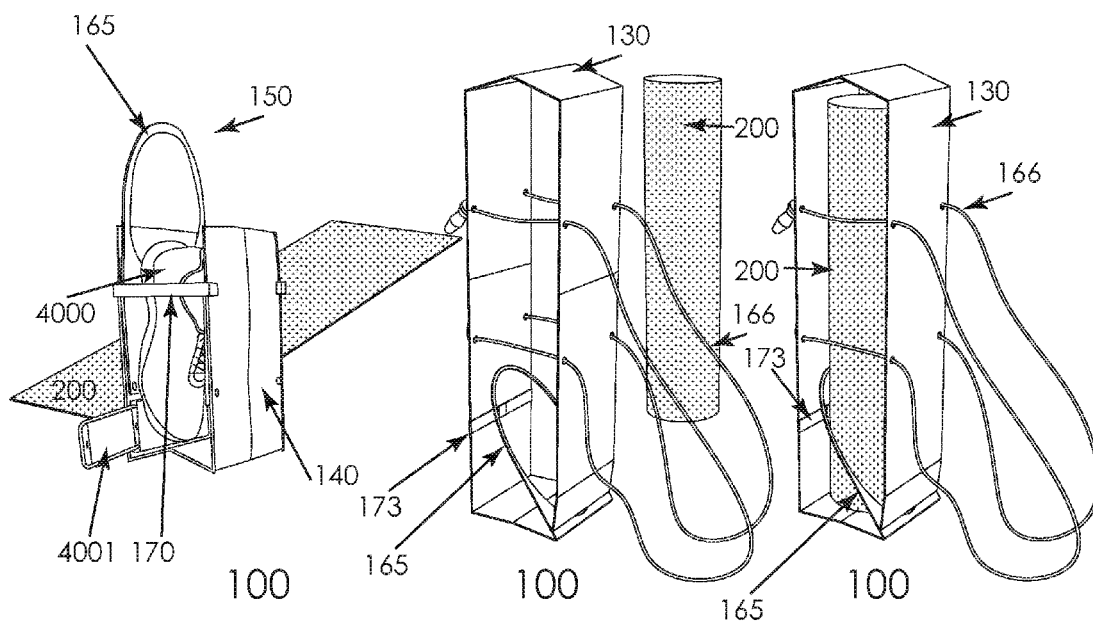


FIG. 7

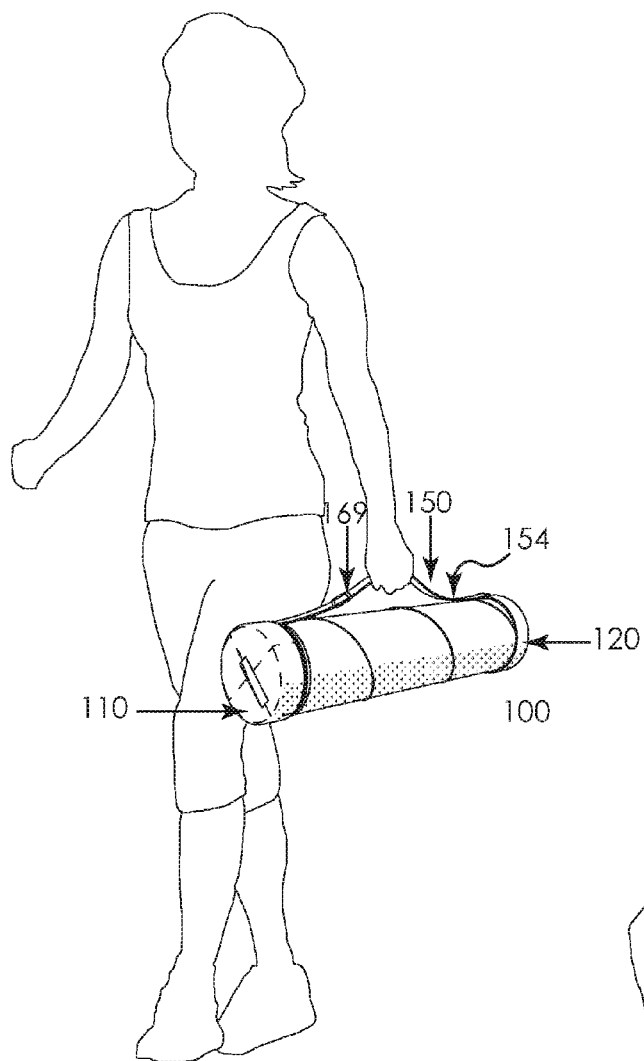


FIG. 8

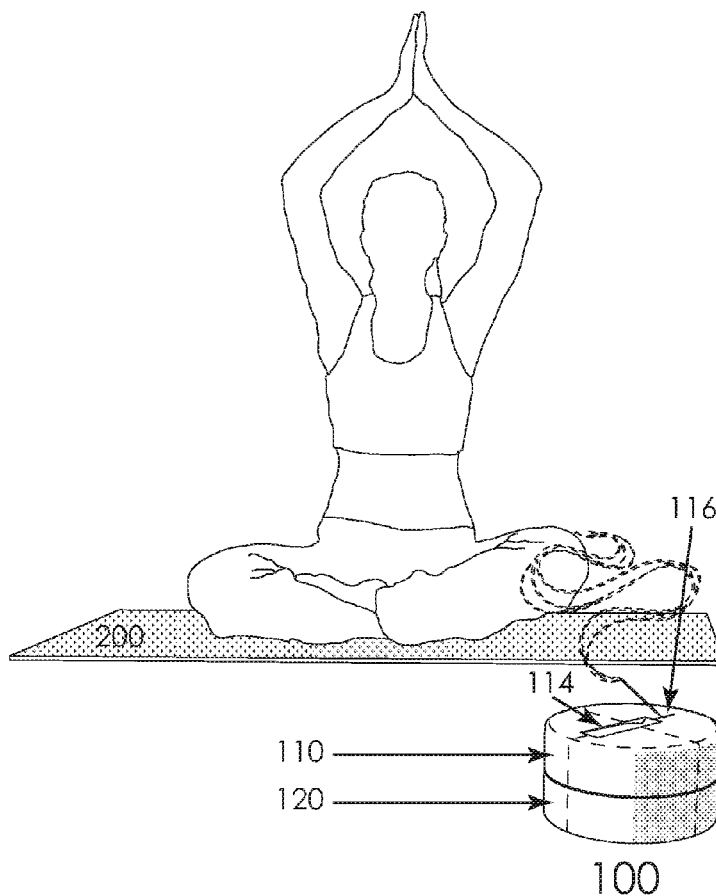


FIG. 9

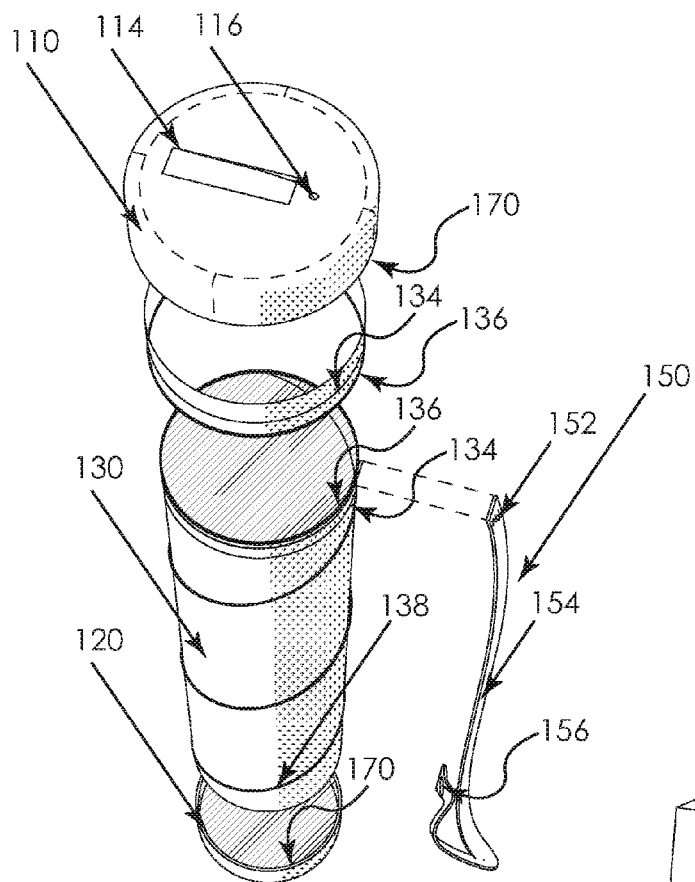


FIG. 10A

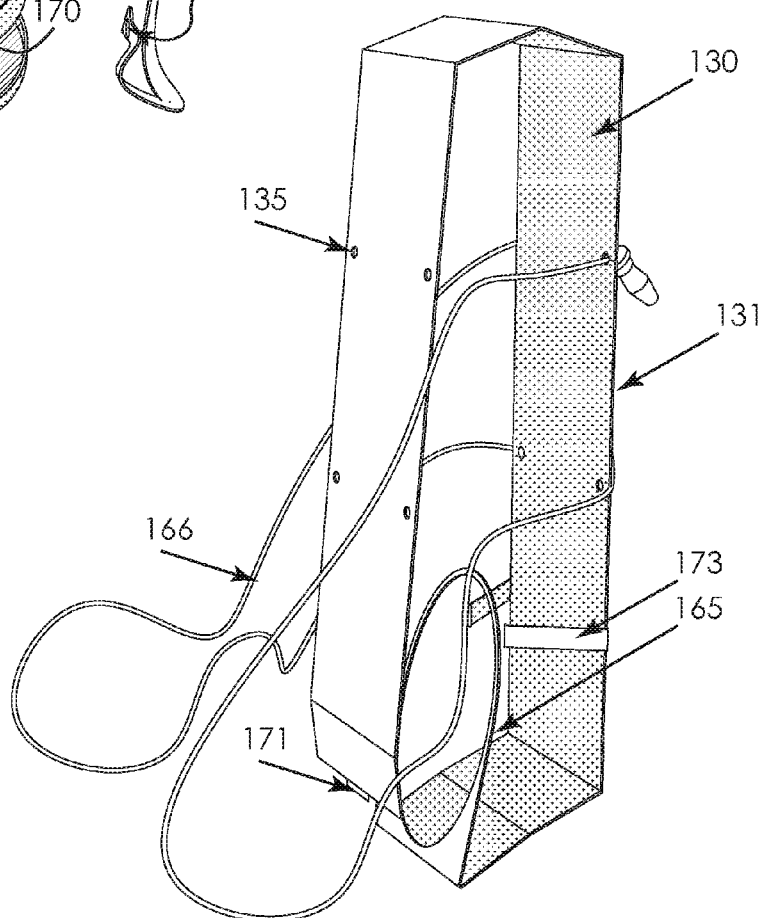


FIG. 10B

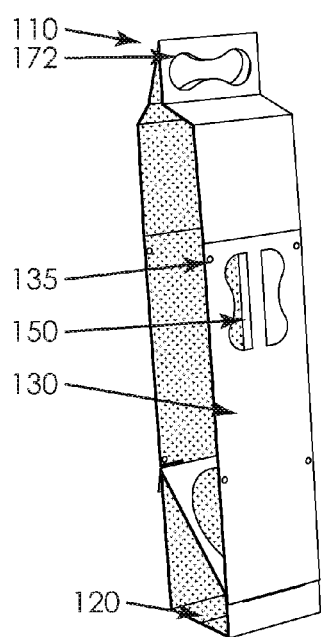


FIG. 11A

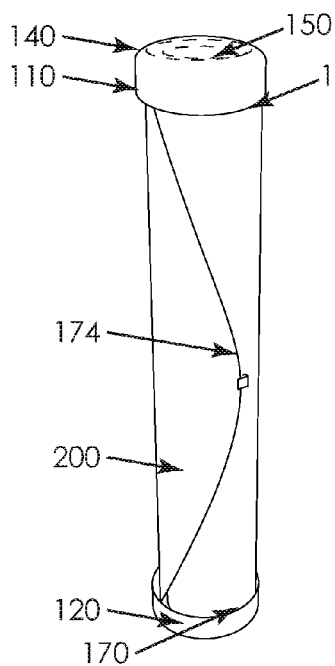


FIG. 11B

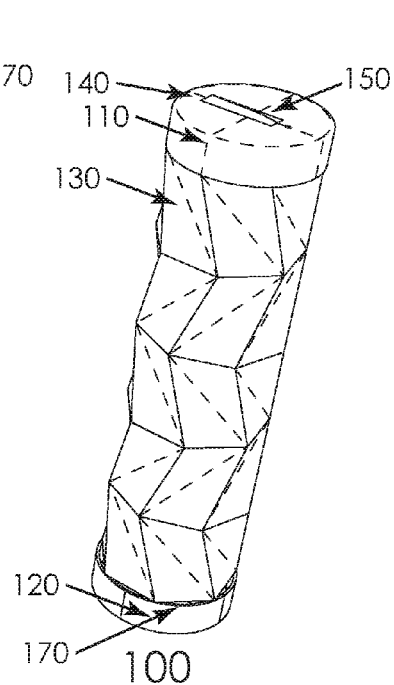


FIG. 11C

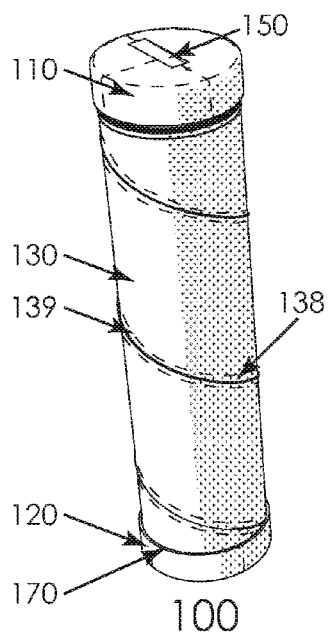


FIG. 11D

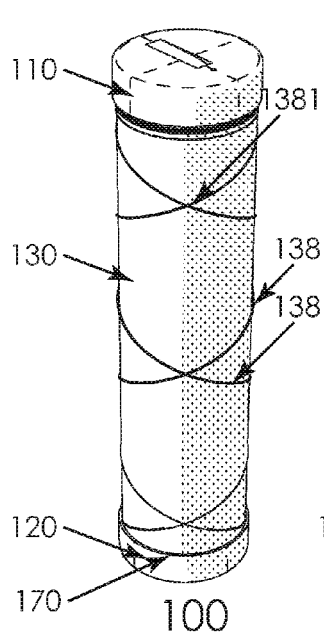


FIG. 11E

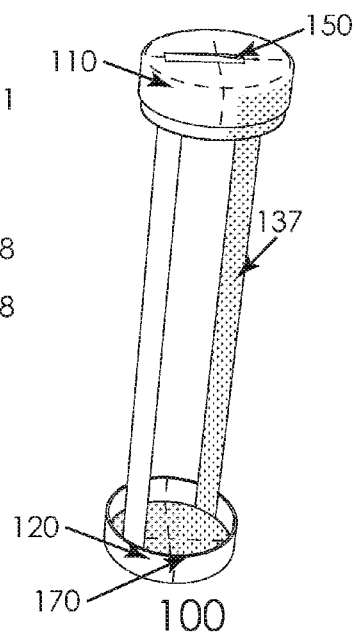


FIG. 11F

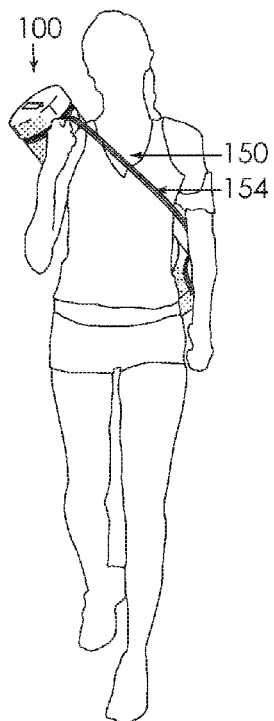


FIG. 12A

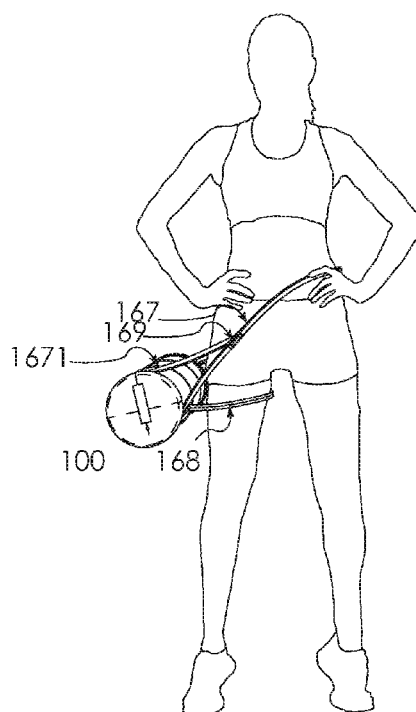


FIG. 12B

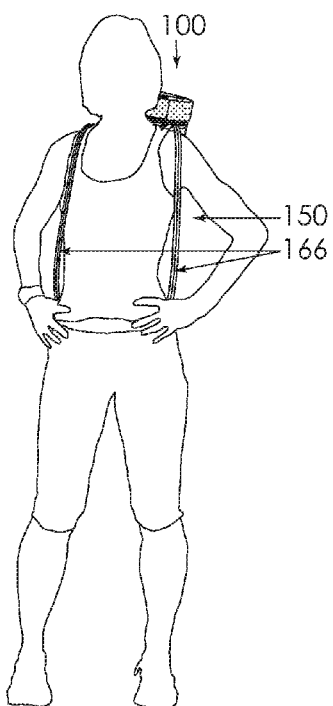


FIG. 12C

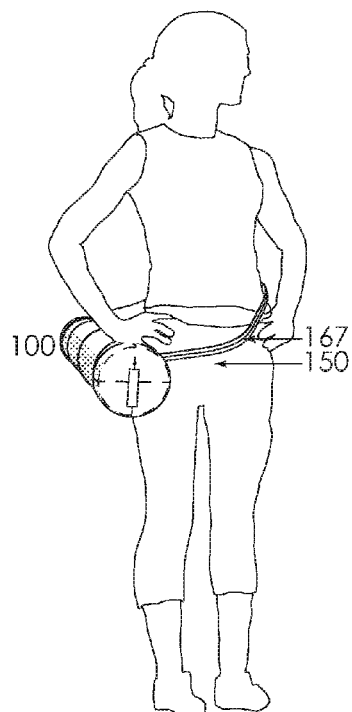


FIG. 12D

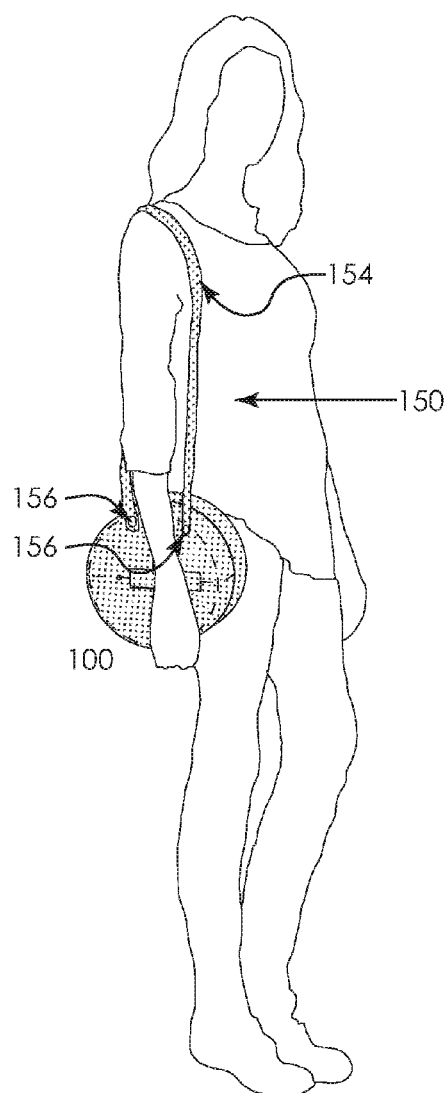


FIG. 13A

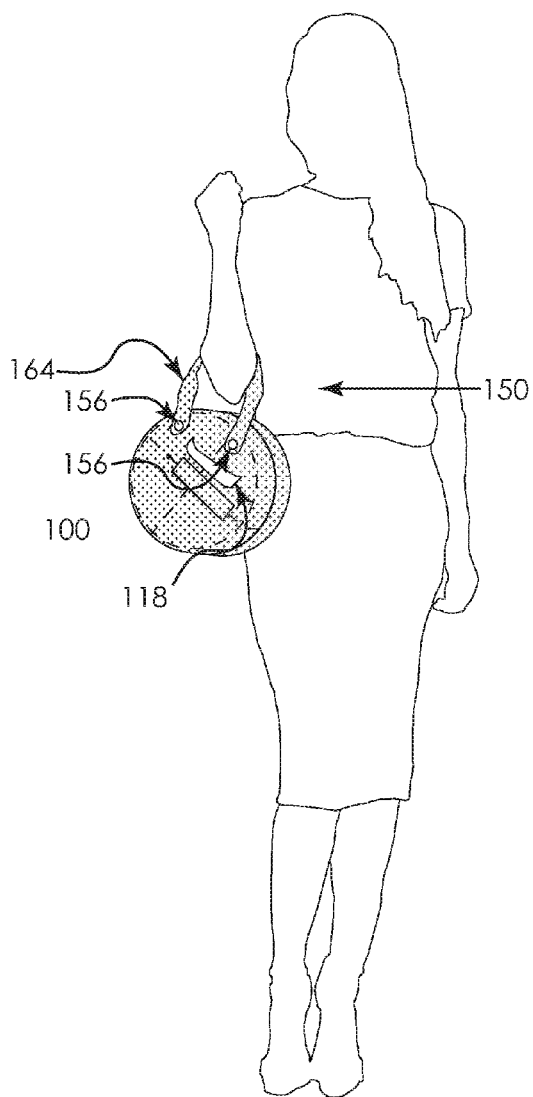


FIG. 13B

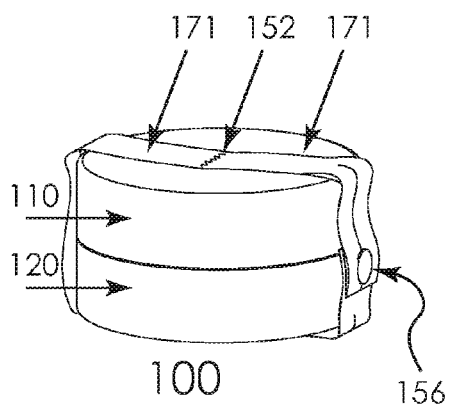


FIG. 14A

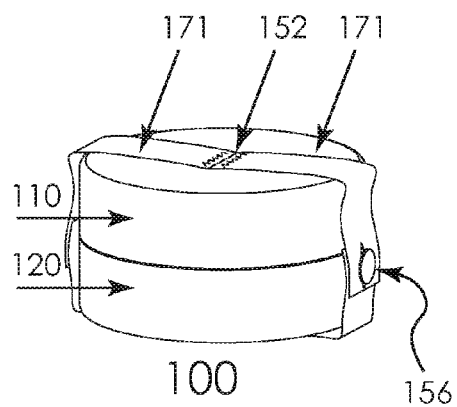


FIG. 14B

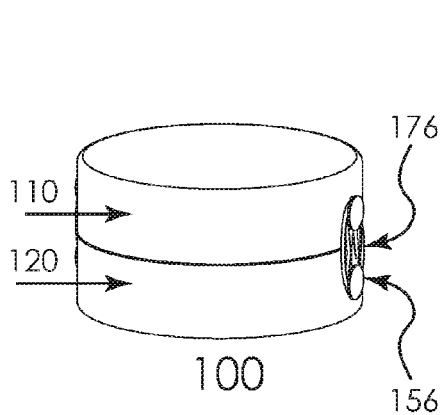


FIG. 14C

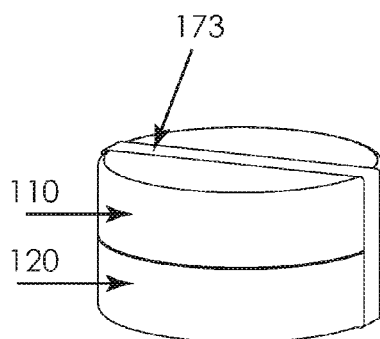


FIG. 14D

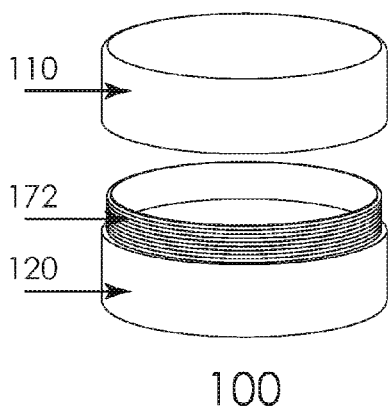


FIG. 14E

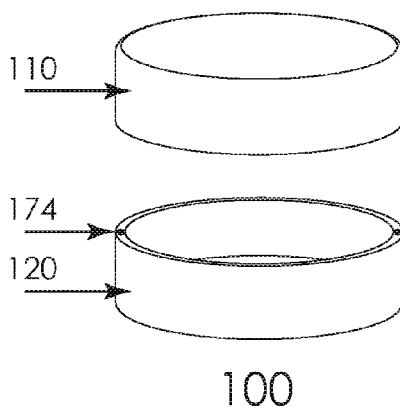


FIG. 14F

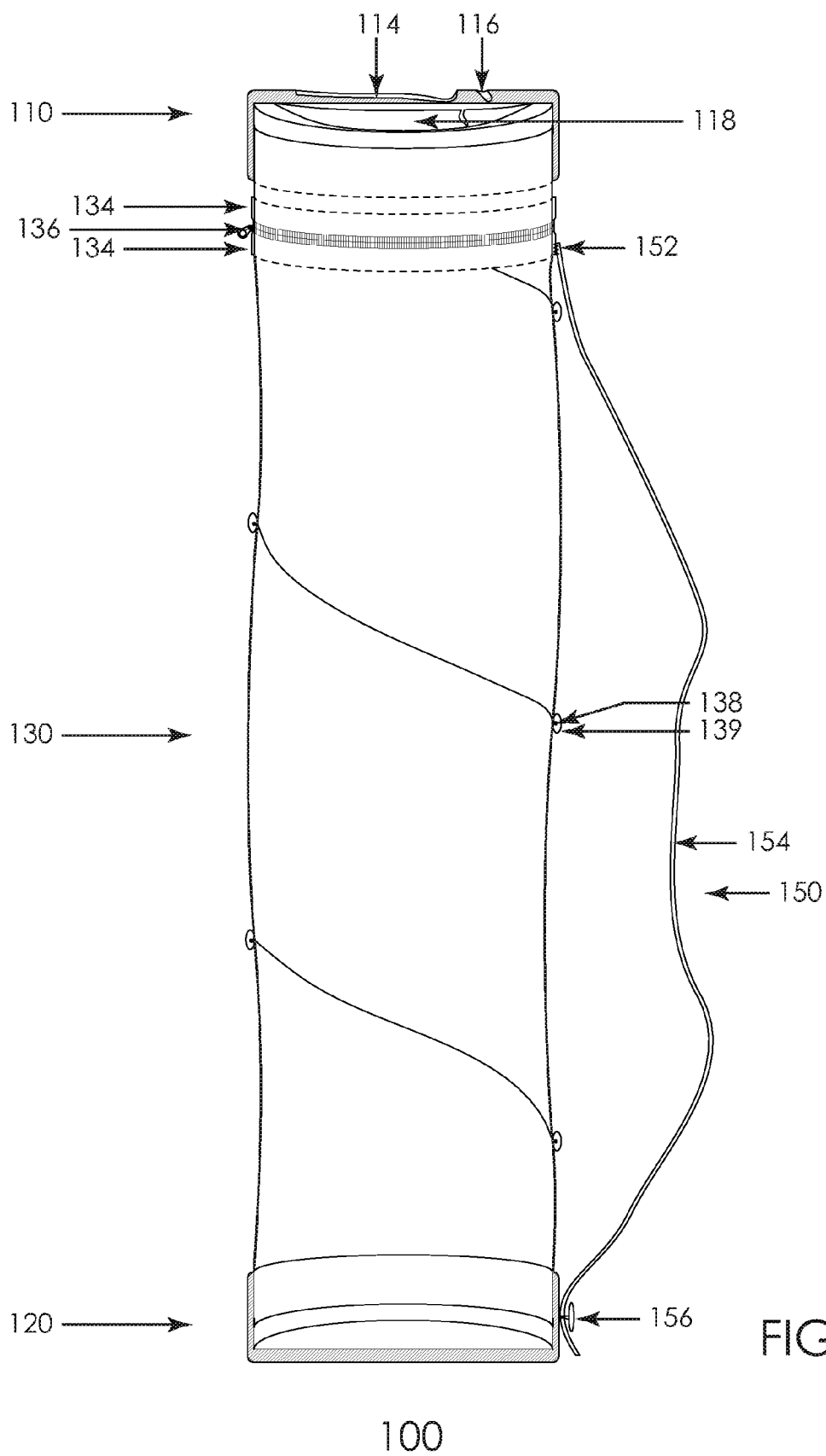


FIG. 15

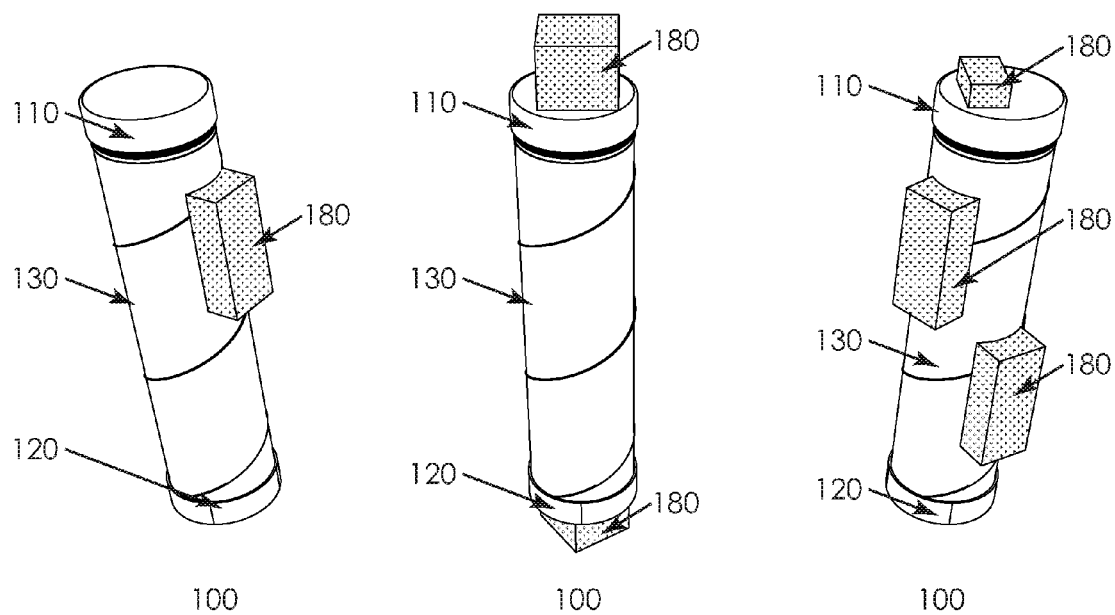


FIG. 16

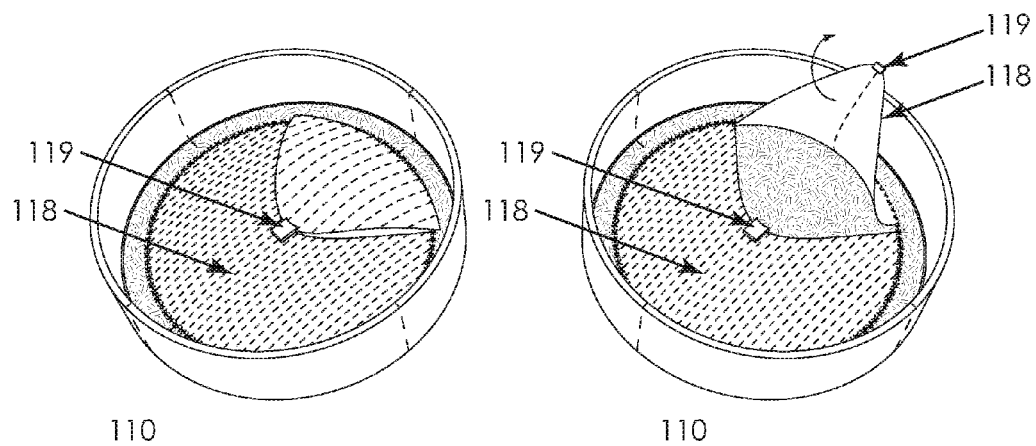


FIG. 17

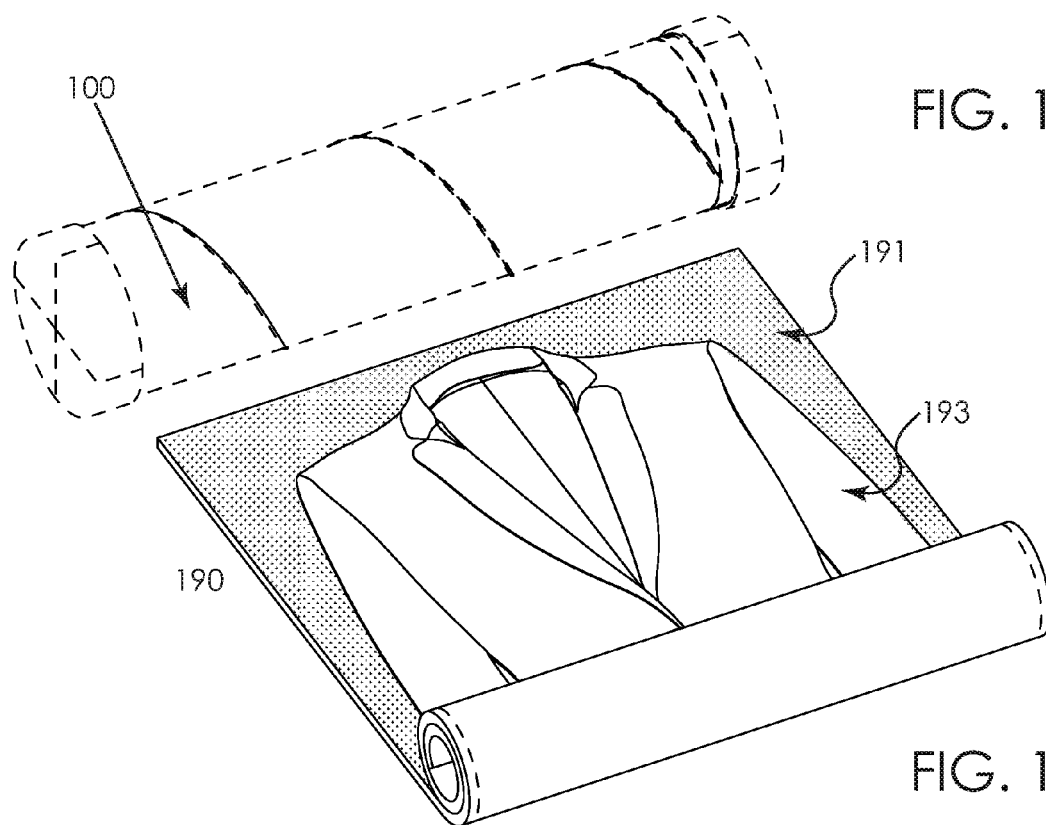
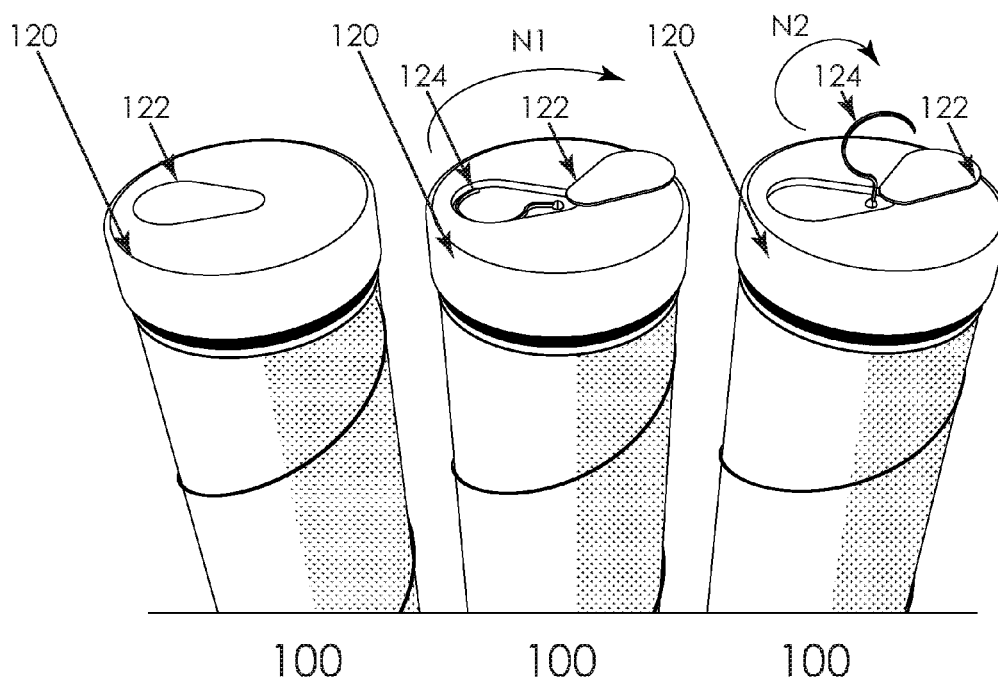


FIG. 18

FIG. 19

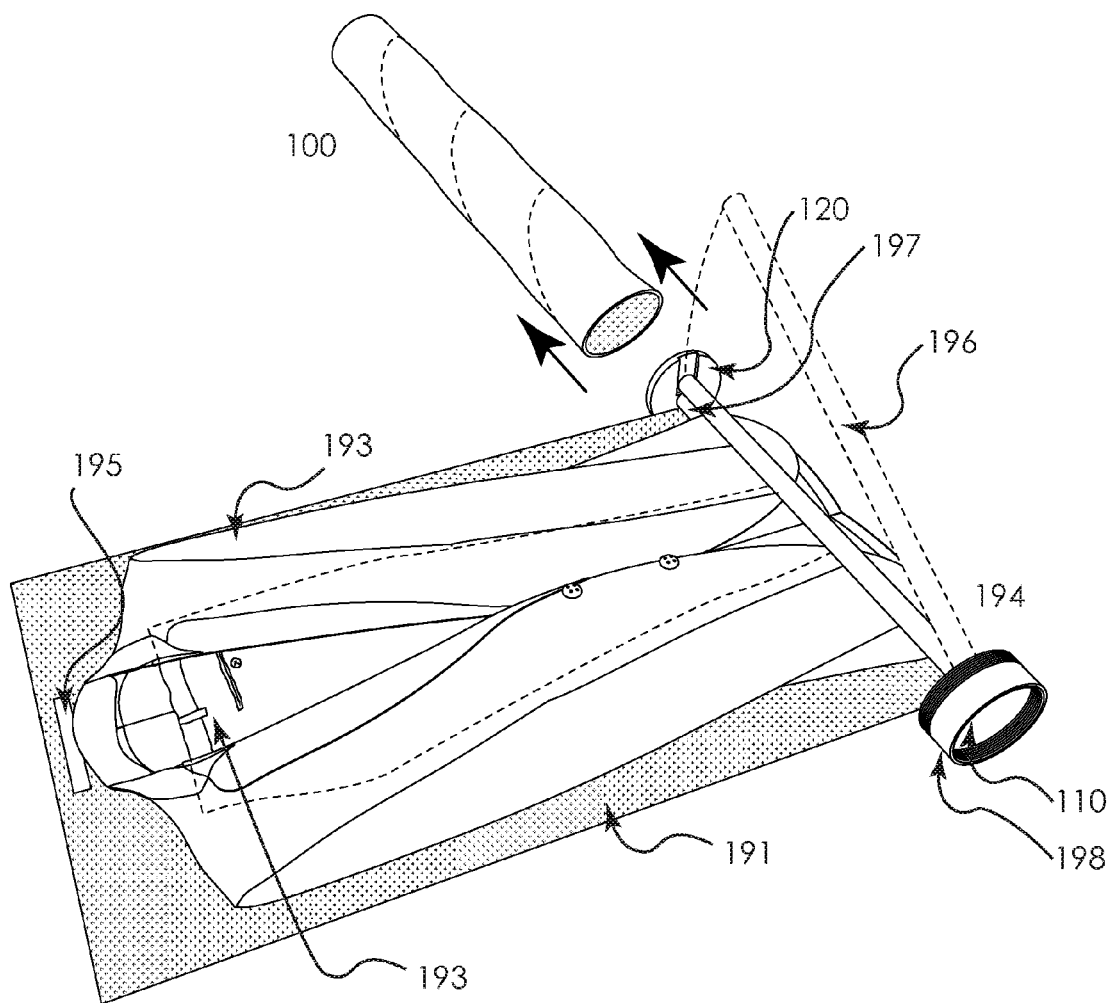


FIG. 20

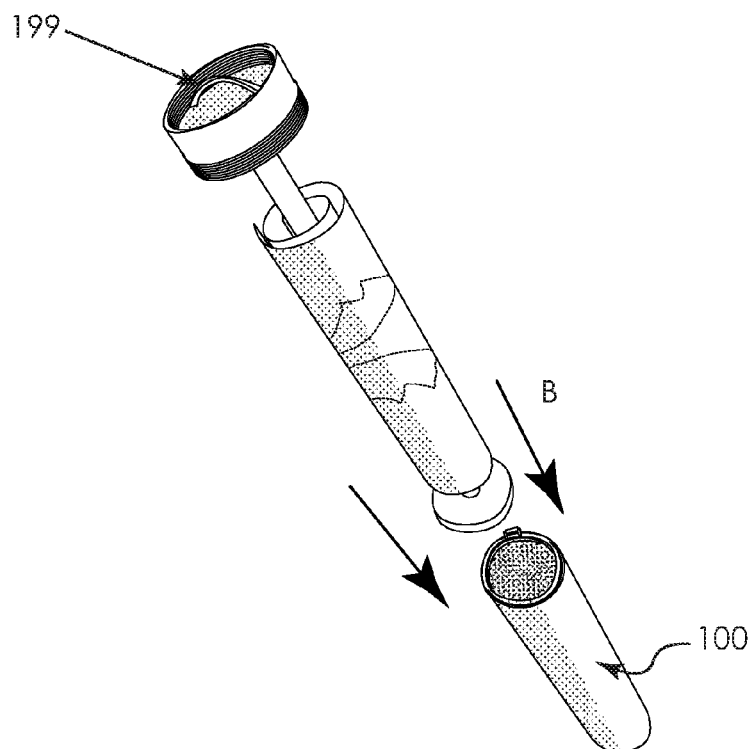


FIG. 21

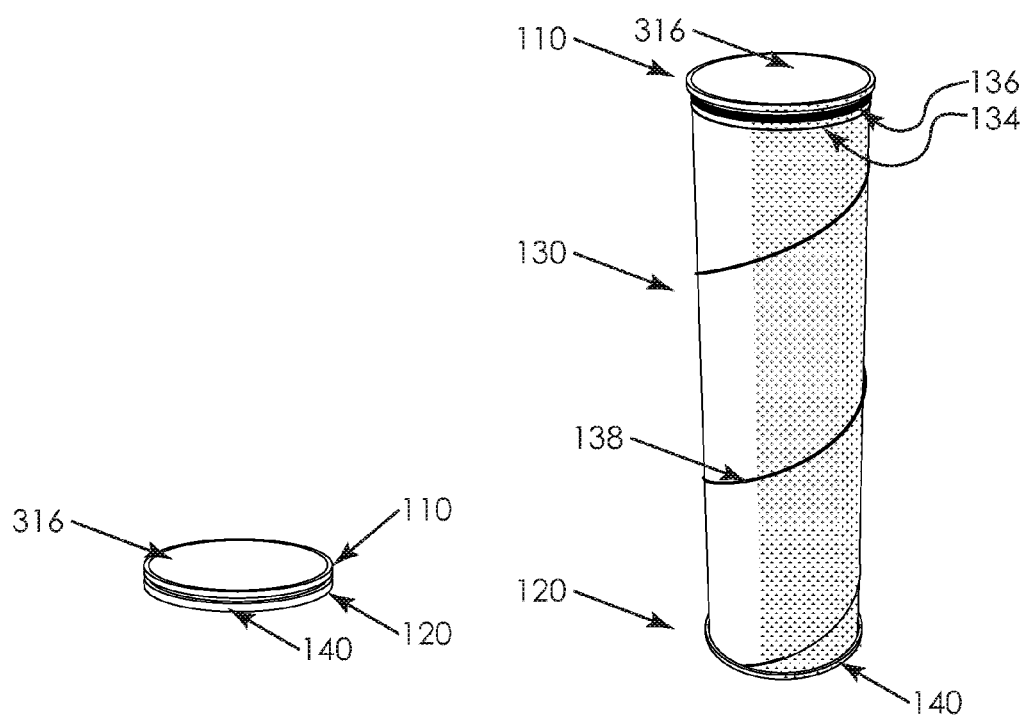


FIG. 22

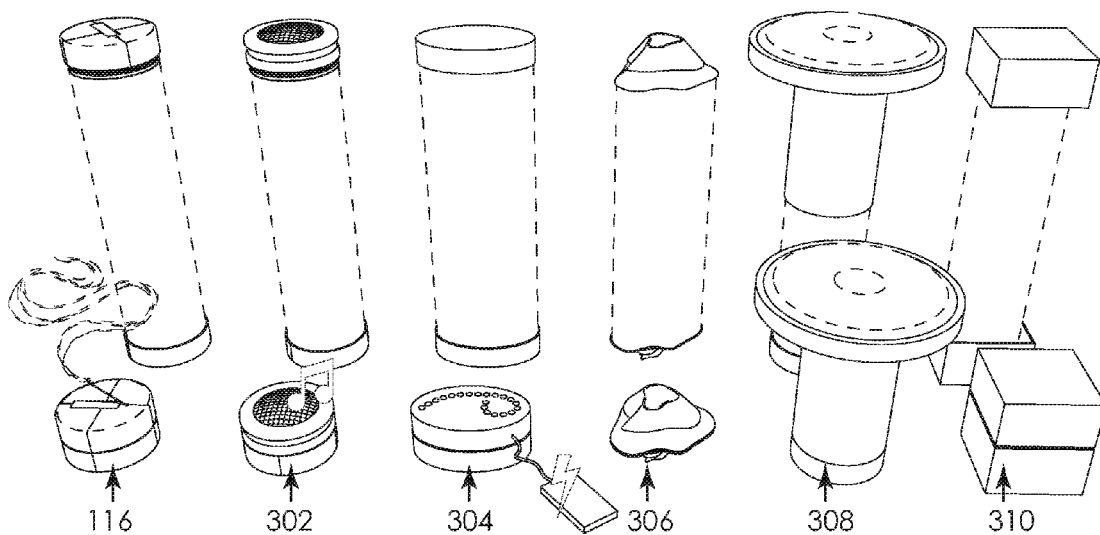


FIG. 23A

FIG. 23B

FIG. 23C

FIG. 23D

FIG. 23E

FIG. 23F

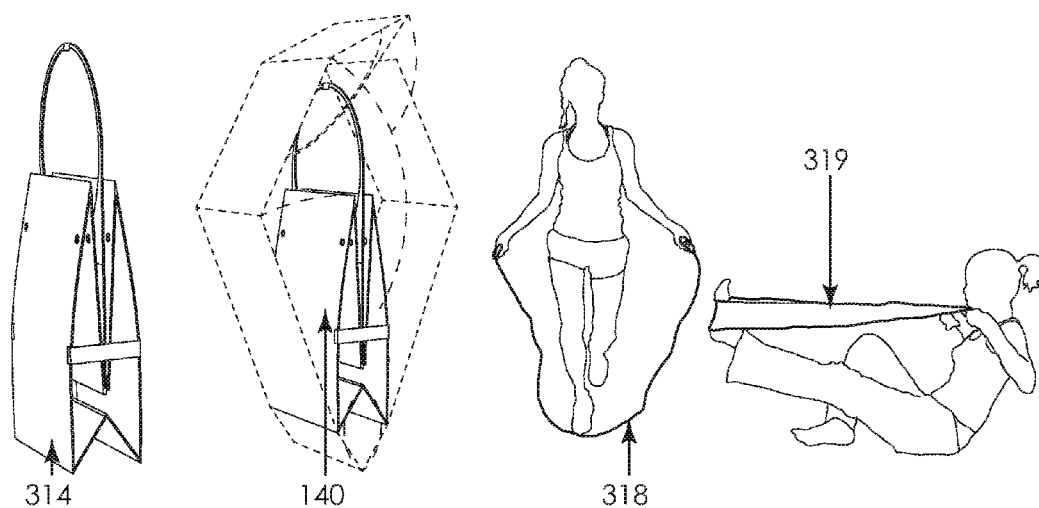
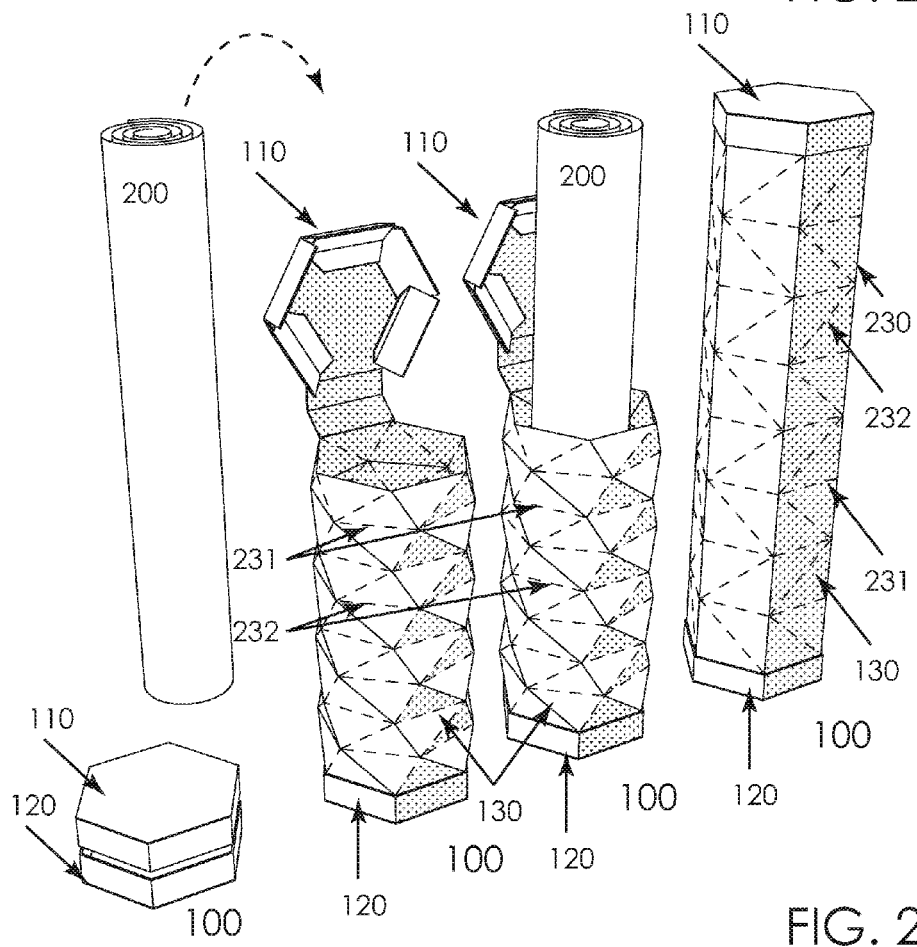
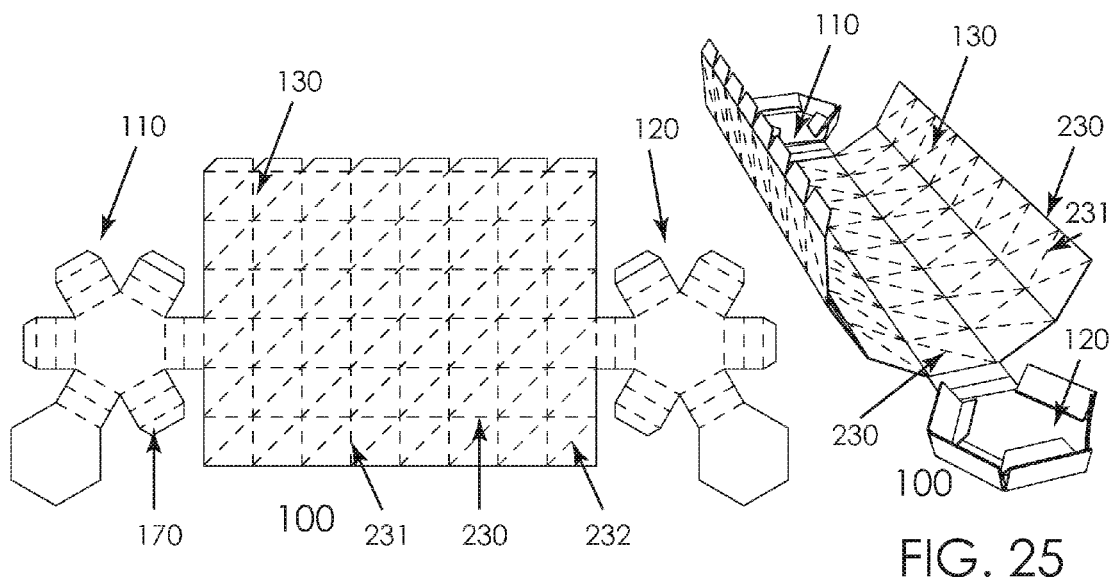


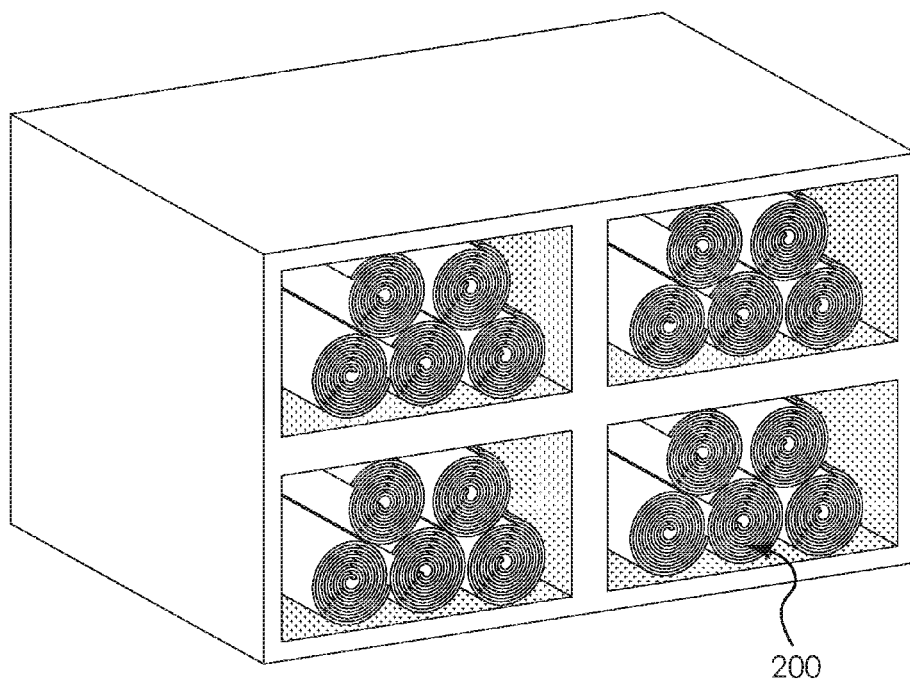
FIG. 24A

FIG. 24B

FIG. 24C

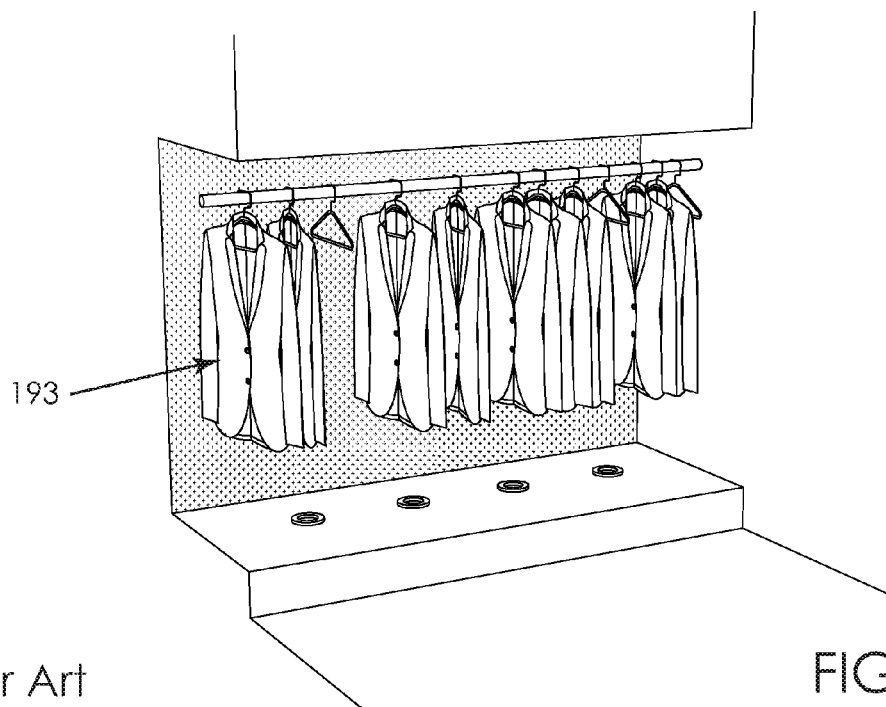
FIG. 24D





Prior Art

FIG. 27



Prior Art

FIG. 28

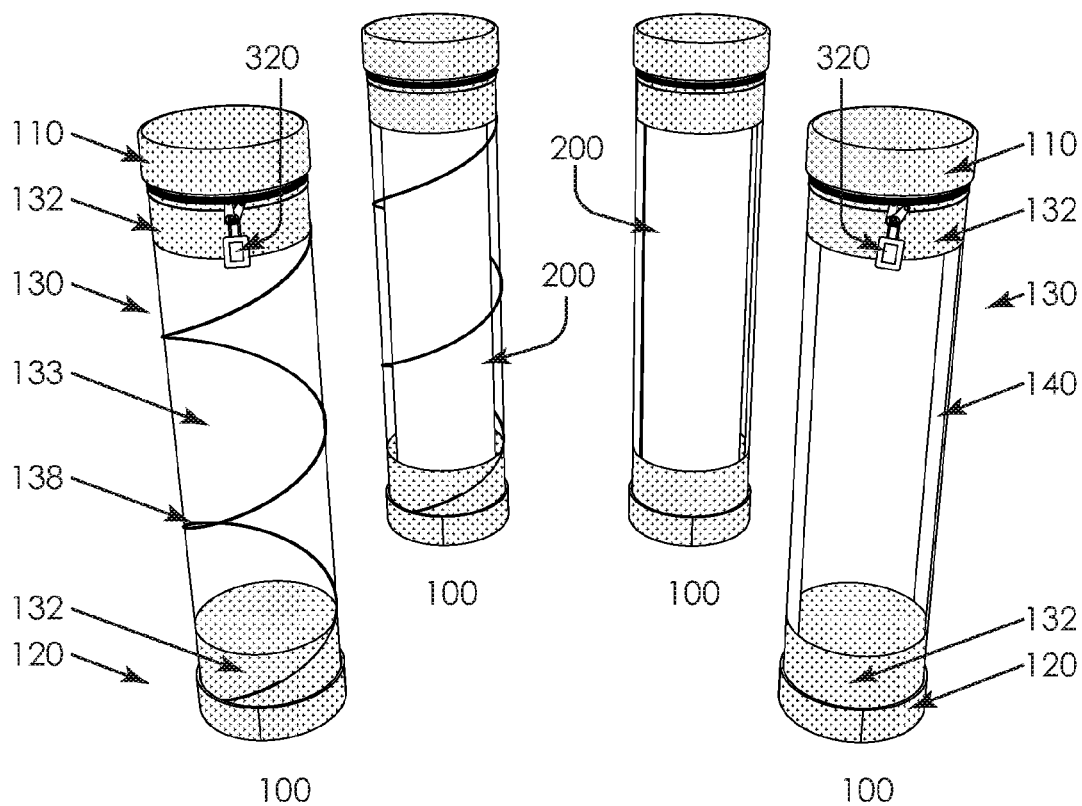


FIG. 29

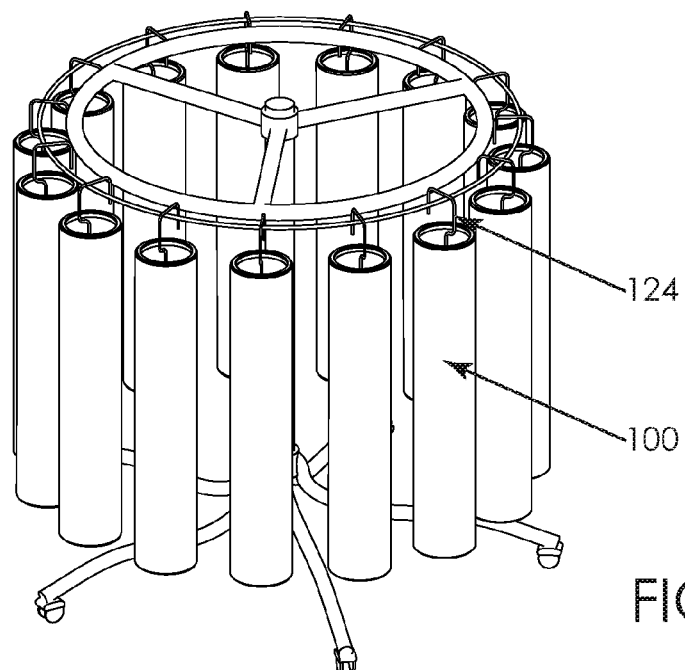


FIG. 30

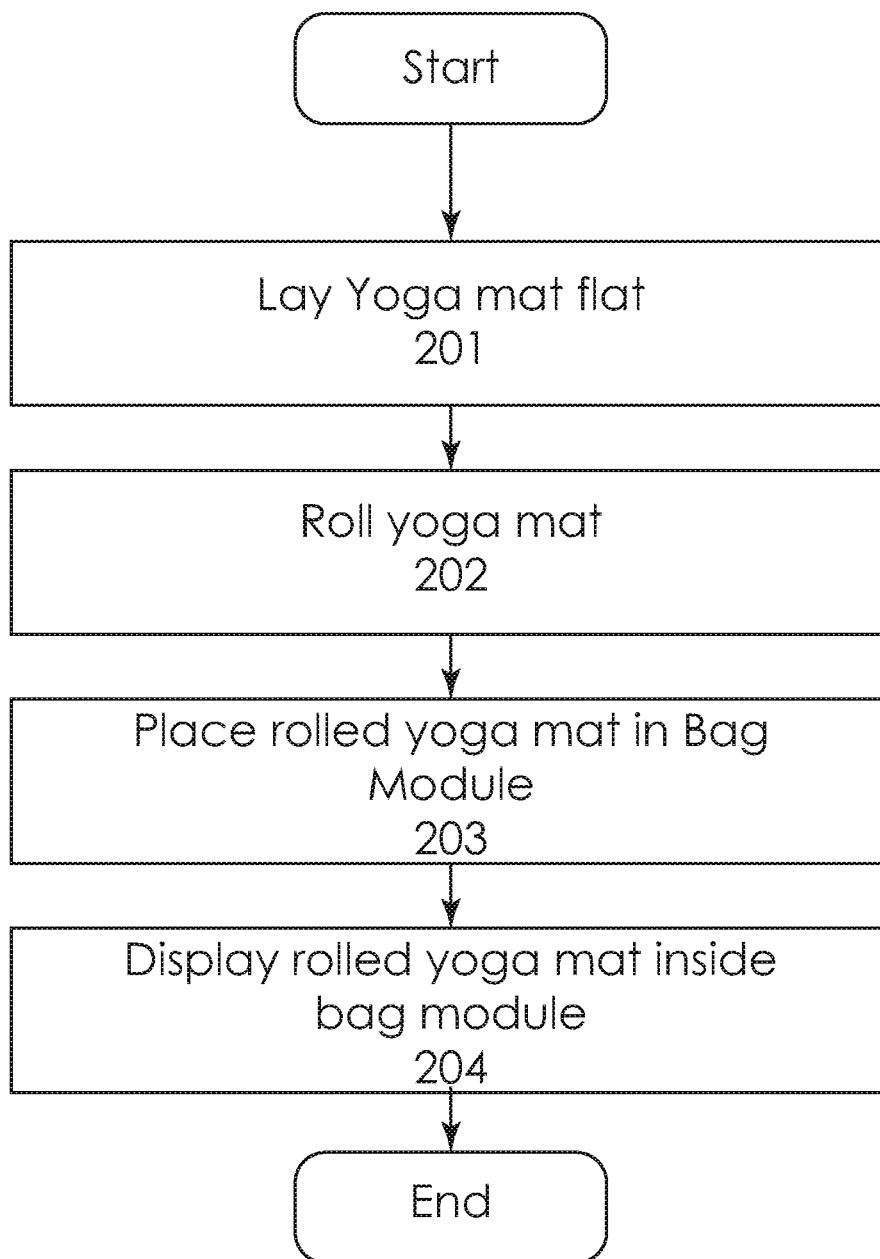


FIG. 31

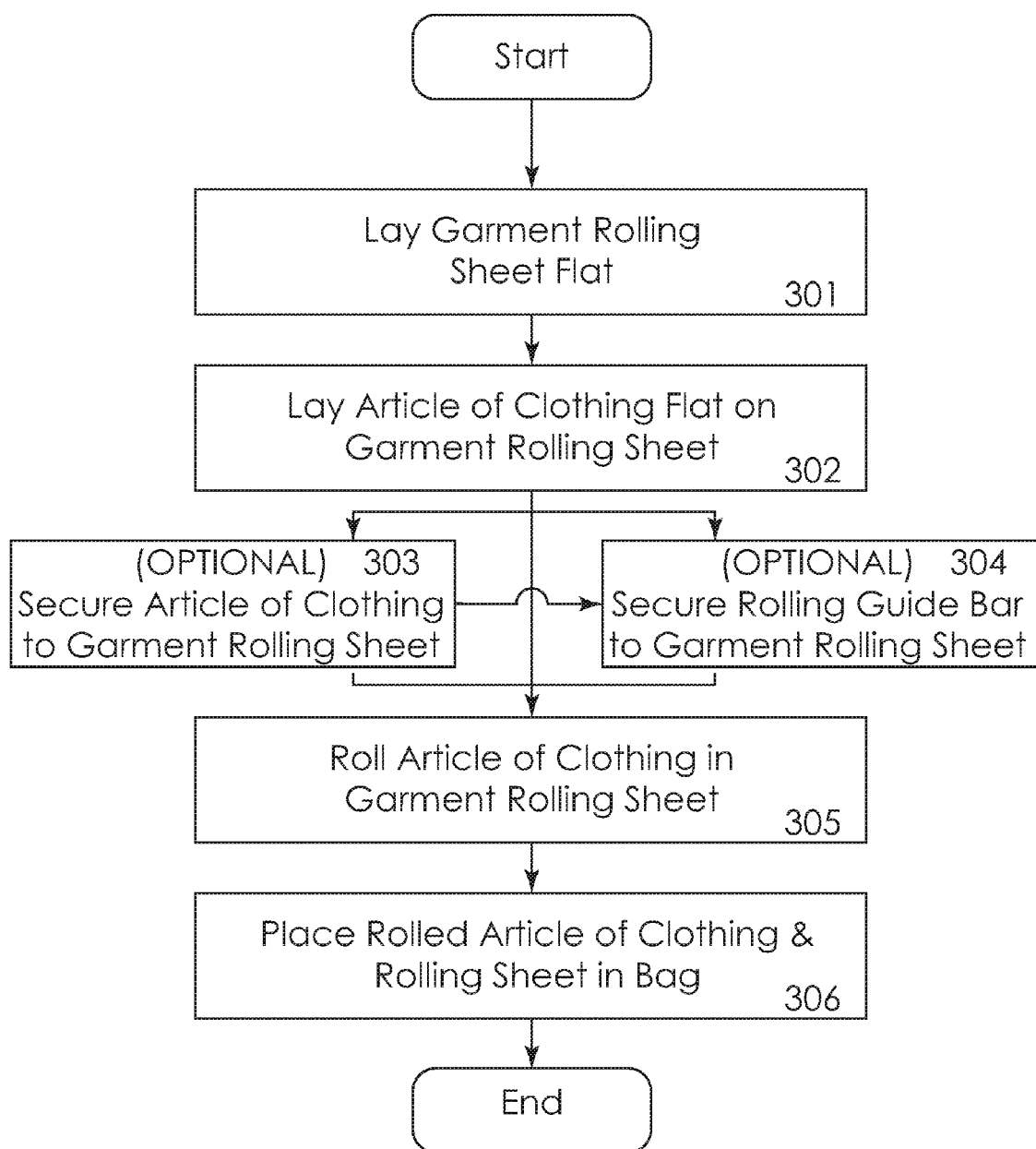


FIG. 32

TRAVEL BAG

[0001] This application claims the benefit of U.S. Provisional Application Ser. No. 62/247,749, filed Oct. 29, 2015, the entire disclosure of which is incorporated by reference herein.

[0002] This application also claims the benefit of U.S. Provisional Application Ser. No. 62/362,041, filed Jul. 14, 2016, the entire disclosure of which is incorporated by reference herein.

FIELD OF THE INVENTION

[0003] The present disclosure relates to a travel bag particularly suitable for carrying elongated articles such as instruments, toys, weapons or bottles as well as articles that can be rolled-up such as yoga-pilates mats (yoga mats, pilates mats or mats that may be used for both yoga and pilates), blueprints or garments such as suits or shirts. The disclosure further relates to methods of storing garments and to methods of displaying garments.

BACKGROUND

[0004] Traveling by necessity or pleasure is constantly increasing. Moreover, in cities, usually people commute to work or to do different activities. Hence, the need of transport elements or bags that are practical as well as attractive is constantly increasing.

[0005] Transport articles such as bags or suitcases traditionally have no use once they have fulfilled the transportation task. This means that when they are not being used they occupy an unusable space.

[0006] Some known bags or pieces of luggage are able to reduce their size and geometry once the transportation function is ended. However, these bags are still unusable (i.e. do not fulfil a function) once they are reduced, and thus still occupy an unusable space. The unusable space is just smaller than when the bags or pieces of luggage are not able to reduce their size.

[0007] A further concern nowadays is the constantly increasing use of “gadgets”, especially electronic gadgets such as mobile phones, chargers, speakers, mirrors, notebooks, tablets or similar that also require space when they are not in use. These articles are usually transported in an additional or separate piece of luggage. However, traveling with various pieces of luggage is rather cumbersome.

[0008] Furthermore, transportation of suits, jackets, dresses and garments in general normally involve special packing care to avoid wrinkling of the garments. It is known to transport these products separately in one or more bags making travel more difficult and cumbersome. In order to reduce the folding time of garments it is also known to pack garments in foldable suitcases. However, known foldable suitcases are bulky and unhandy to carry, particularly because they have a substantially flat shape that makes them e.g. unstable in winds and difficult to carry in crowds. In fact, such bulky pieces of luggage are usually unsuitable for carry-on items thereby defeating the purpose of keeping the garment bag with the traveller. And still these foldable pieces of luggage do not have a further use once the transportation is ended.

[0009] In addition, in the world of “fitness”, yoga or pilates a mat or the like that is usually accompanied by other elements such as incense sticks, jump ropes, resistance bands, sculpting resistance bands, fitness trackers and boards

with texts inspirational motives, colours or patterns of drawings and textures or sculptures to aid concentration usually need to be transported. These mats are usually transported under the arm. This complicates using the hands for other nowadays necessities such as writing on the phone, eating while traveling, or even carrying other things. It is known to embrace the mats with e.g. bandoliers or other types of straps. However, these straps may carry the mat but still need the use of further space for their storage and they do not provide protection to the mat. A similar situation arises with e.g. big towels used in beaches and pool areas.

[0010] The transport of these bulky articles usually goes against combining activities such as fitness, pilates, yoga or pool with subsequent activities that may require more formal attire like a dinner or a concert. In a typical situation, a mat may not be able to be carried to formal events.

[0011] It is an object of the present disclosure to provide a travel bag, particularly suitable for elongated articles that at least partially overcome some of above mentioned drawbacks.

SUMMARY

[0012] In a first aspect, a travel bag is disclosed. The travel bag comprises a main body extending from a first end to a second end, and configured to assume an extended configuration for transportation of one or more elongated articles, and a compressed configuration for use other than transportation of the elongated article. A distance between the first end and the second end is larger in the extended configuration than in the compressed configuration.

[0013] According to this aspect, a travel bag being extendable is provided. This means that the travel bag provides at least two different geometries that may be used differently. Firstly, the extended configuration that is suitable for transportation of an elongated article and, secondly, the compressed configuration that may be used for different alternatives that will be described later on. The extended configuration may thus be defined as a function of the elongated article to be transported.

[0014] As used herein, an elongated article encompasses in particular a long and slender article. In some cases the article per se may be slender. In others, it may acquire a tubular/cylindrical (slender) condition once it is e.g. rolled-up. Examples of long and slender articles may be musical instruments, tools, toys, guns or even bottles. Examples of articles that may be rolled-up and become slender may be yoga-pilates mats, towels, papers and documents, inflatable mattresses or garments such as suits, jackets, pants, coats, dresses, kanduras, thawbs, dishdashas, saris, kimonos, cheongsams, shirts, ties or any other piece of clothing that requires transportation and may be subject to wrinkling.

[0015] As will be explained in the remainder of the present disclosure, the travel bag may be designed for several different used. Also, the travel bag may have different main bodies, and may include various additional elements, such as lids, handles or elements allowing grabbing and manipulation, or closure elements. Many possible variants and possibilities will be explained in the following non-exhaustive description.

[0016] In some examples, the travel bag may further comprise a first lid extending from an inner open end to an outer closed end, and a second lid extending from an inner open end to an outer closed end. In these cases, in the extended configuration, the main body first and second ends

may be respectively connected to the inner open ends of the first and second lids such that a substantially elongated storage housing is defined within the main body, and in the compressed configuration, the second lid inner end may be connected to the first lid inner end to define an alternative storage housing that may be smaller than the elongated storage housing within the outer ends of the first and second lids.

[0017] In these examples, the possibility of the bag to change its geometry and define housings of different sizes permits the transportation of the elongated article and the introduction of less volumetric articles when it is not being used for transportation of the elongated article. A function to an object that usually would be stored occupying a valuable space is thus provided. The possibility of losing other articles can also be reduced by storing them in the smaller housing. Or what is equivalent, this involves that the same object that initially was linked to the transportation of an article can later on be used, either separated (e.g. each lid separately) or assembled (e.g. the two lids connected to each other to define the minimum housing) for other purposes thus combining a single object (the bag) with different uses besides the original use. This contributes to reducing space occupancy, improving logistics, being cost-effective and adapting to fast changing needs in society.

[0018] In some examples, the bag may be in such a way that distance between an open end and a closed end of the first and/or second lids is minimal such that they substantially define two opposite surfaces of a substantially flat element. In some other examples the first lid may comprise a substantially flat nature and the second lid may also comprise a substantially flat nature such that in the extended configuration the substantially elongated storage housing can be defined and in the compressed configuration a substantially flat object can be defined.

[0019] In some examples, one or more of such lids may be fully removable from the main body while in other examples one or more lids may be partially fixed to the main body. The connection between the lids and the main body in the areas that are not permanently attached may differ depending on the use but could consist of zips, male-female connectors, magnets, pressure fitting, friction fitting, snap fit connectors, clip connectors, latches, buckle connectors, electronic connectors, biometric or other password locks of any kind, rubber connectors, threads, clamps or other mechanical-based connectors, e.g. Velcro® (a hook/loop fastener). In some examples the connectors may be located at the inner end of the lids while in other examples the connectors may be located at the outer end of the lids. In some examples the connectors may be located at lateral sides of the lids. In other examples the connectors may be located in a combination of the positions hereinbefore.

[0020] In some examples, one or more lids may be fully removable from the main body while in other examples one or more lids may be partially fixed to the main body.

[0021] In some examples, the first and second lids may be provided with corresponding connectors for establishing a detachable connection between each other. In some examples, the connectors may be provided at their inner ends. In others, they may be provided at outer surface of the lids. Combinations thereof may also be possible.

[0022] In some examples such lids may physically and directly touch each other while in other examples the lids

may not have a direct physical contact between each other and may just be connected through one or more appropriate corresponding connectors.

[0023] In some cases, the connectors may be selected from the group consisting of zippers, male-female connectors, magnets, knots, clasps, hooks, staples, screws, rings, straps, pressure fittings, friction fittings, snap fit connectors, clip connectors, latches, buckle connectors, electronic connectors, biometric or other password locks of any kind, rubber connectors, threads, clamps or other mechanical-based connectors, e.g. Velcro®. In some cases, the connectors may be removable from any of the lids or even the main body. In others, they may be fixed. Combinations thereof may also be foreseen. The selection of the type connector used for establishing the detachable connection between the two lids may depend on the final intended use for the bag in the compressed configuration. In an example, the bag may be used as a handbag and the connector may thus be selected so as to provide a safe and elegant closure.

[0024] In some examples, one or more of the outer ends of the first and second lids or the lids as such may comprise an outer surface that allows the possibility of incorporating features such as texts, diagrams, textures, drawings and patterns, technical or installation descriptions, bar codes, QR codes, art representations, logos or specific colours located at their outer close ends. These features may have great use for logistics, tagging, tracking, etc. Such features may be used for marketing or for inspirational or motivational purposes as they may support with concentration, guidance of a particular activity or attitude during activities such as meditation or physical exercise among others. Such lids (or lid outer surfaces) may include other elements that may also be flat in nature but that may include a specific use, like digital screens, electronic ink displays, note boards, mirrors of different types, touch devices or similar.

[0025] In some examples, both lids may be flat. In these cases, the bag in the compressed configuration may only allow storage of objects of a flat nature such as coins, bills, keys or cards. In other examples having both lids flat the bag may not provide any possibility of extra storage while in its compressed configuration but the features located at the lids outer surface may provide a further second use totally different to the transportation activity associated with the extended configuration.

[0026] In more examples, one or more of the lids may be of a solid nature, i.e. the inner open end is filled with the same material as the outer closed end. In these examples, the lids, either independently or in combination (in the compressed configuration) may have a totally different use as that of the bag in the extended configuration (transportation). Examples of such uses may be yoga blocks, portable benches, step platforms, (inflatable) fitballs, balance trainers, etc.

[0027] In more examples, one or more of the lids may comprise one or more perforations at their outer closed end to allowing air to pass through. This way ventilation during transportation is achieved thus avoiding overheating of the transported article. Ventilation may be required for transportation of e.g. special instruments, guns, toys or liquids.

[0028] In more examples, one or more of the outer ends of the first and second lids may comprise an outer surface that may be flat or irregular in shape. In these cases, the outer surface may be provided with a sculpture, an incense burner or pray shrines or combinations thereof. These examples

may be of interest e.g. in the world of “fitness”, yoga and/or pilates in which the transport of a mat that may be rolled-up to become an elongated article may be combined with e.g. the burning of incense or exposure of sculptures that are usually used in these activities for concentration and inspiration. In more examples, an outer surface the first and/or second lids may be coloured or may be covered by features such as patterns of drawings, inspirational motives or texts and/or textures that may also help concentration during these activities.

[0029] In some examples, one or more of the first and second lids may comprise one or more power sources selected from batteries, photovoltaic chargers, piezoelectric or kinetic chargers or any other portable energy device or power source able to charge a user electronic device. This provides the bag with further alternative uses when its transportation use is over. In some cases, the bag may also use any of these power sources when it is carrying the elongated article, i.e. when the main body is in the extended configuration. In an example, the power source may be used to power lights, speakers, digital screens or other electrical components that may be incorporated into the bag. Similarly, the power source may be used to charge or provide power to external devices such as mobile computing devices, portable hair dryers, electric razor, or other electrical devices.

[0030] In some examples, one or more of the first and second lids may comprise one or more electronic or digital device selected from speakers for connecting to external or internal audio sources, media player, lights, or GPS geolocation. This provides the bag with further alternative uses when its transportation use is over. In some cases, the bag may also use any of these electronic or digital components when it is carrying the elongated article, i.e. when the main body is in the extended configuration.

[0031] In some examples, the main body may be made of a flexible and foldable material. In some of these cases, the main body may fit inside the minimum storage housing defined by in the compressed configuration of the examples comprising lids. In some examples the main body may extend due to the weight of the lower lid. In other examples, the main body may further be provided with one or more rods describing a substantially helical shape to allow instant twist and fold of the main body. This permits a substantially instant set-up and fold-down of the main body thus transforming the bag from the extended configuration to the compressed configuration (and vice versa) in a rather simple and fast way, similarly to igloo tents or tipi tents. In more examples, the main body may consist of a flexible structure with parallel sections that are rigid or semi-rigid and that compress next to each other, similar to an accordion, in which case the main body provides a similar transformative nature as the helical solution explained above. In more examples, the same transformative configuration may be provided by a main body that contains folding lines that allow the main body to compress in a three-dimensional matter, similar to origami.

[0032] In some examples, one or more of the lids may be provided with a fastening system for attachment of a handle system. This enhances portability of the bag. In more examples, a fastening system for attachment of a handle may be provided in the main body, either in a fixed or removable manner. In yet more examples, handle systems may be attached to the main body and one or more of the lids. The

fastening system may be provided internally or externally or combinations thereof, depending on the further intended use for the bag in the compressed configuration. In the examples where there is a removable fastening system the connection may be selected from knots, clasp, hook, staple, screws, clips, rings, straps, Velcro®, male-female systems, magnetic solutions, zippers, male-female connectors, pressure fitting, friction fitting, snap fit connectors, clip connectors, latches, buckle connectors, electronic connectors, rubber connectors, threads, clamps or other mechanical-based connectors, e.g. Velcro®.

[0033] In some examples, the handle system may be adjustable in length. This ensures adaptability of the handle system to the different size of people and also allows different handling postures or conditions, e.g. hand bag or bandolier. In more examples, multiple handle systems may be provided. Such carrying elements may comprise, but are not limited to, handles, handle straps, collapsible pull handles, shoulder straps, back-pack straps, bandoliers, cords, grips, hooks, or similar elements. They may be fixed or adjustable e.g. in length. In some examples, extra storage areas may be provided in one or more of the handle systems. In some examples, one or more of the handle system may have a further use once the transportation of the elongated article is finalized. The further use of one or more of the handle systems may comprise, for example, jumping rope, resistance bands, sculpting bands, or similar.

[0034] In alternative examples, the main body and the lids may be integrally formed. A handle system substantially as hereinbefore described may further be included.

[0035] In some examples, the main body may be made of a substantially rigid or semi-rigid material and may comprise a plurality of folding lines arranged substantially perpendicular to a longitudinal axis of the main body. In these cases, in the extended configuration the main body may be folded at a portion of the folding lines such that a substantially elongated storage housing is defined within the main body, and, in the compressed configuration, the main body may be folded at all or at a portion of the folding lines. In other cases the folding is such that in the compressed configuration the main body is folded so as to define a geometry that is different to that of the extended configuration. In these cases, in the compressed configuration the resulting bag has a geometry and volume that allows for a secondary use. In examples, such secondary use may be a concentration board or a pin-up board where different yoga cards with postures or training exercises may be placed. Such a secondary use may also be an alternative bag to carry other (and smaller) things different to the elongated article, such as shoes, a mobile phone and other articles once the yoga mat that has been transported using the extended configuration. In these examples, the extended configuration may leave the elongated article being transported exposed to the outside without a full cover.

[0036] In some examples, the plurality of folding lines at the main body may be arranged in a triangular or trapezoidal manner so the main body folds in a similar manner as origami. In some of these cases, the main body may fold in a tubular shape to define the extended configuration thus defining a shell for the elongated article to be transported. In some examples, the extended configuration may be maintained through connectors provided in the main body or through external connectors such as latches or ropes. In these cases, one or more of the connectors may be fixedly

attached to the main body or they may be removable. In some cases, the connectors may be selected from zips, male-female connectors, magnets, pressure fitting, friction fitting, snap fit connectors, clip connectors, latches, buckle connectors, electronic connectors, biometric or other password locks of any kind, rubber connectors, threads, clamps or other mechanical-based connectors, e.g. Velcro®. In some examples, one or more lids substantially as hereinbefore described may be provided to physical close the housing wherein the elongated article is to be transported when the main body is in the extended configuration. In some examples, handle system may also be added to the main body to ease transportation.

[0037] In some of these examples, the main body may be provided with holes or eyelets. In these cases, the holes and/or eyelets may be configured to receive a back-pack handle system. This ensures a hands free transportation of the elongated article. In alternatives, the handle system may comprise a single strap or one or more handles. In some alternatives, a foldable handle system may be provided such that it may be directly defined by the folding of the main body while in other alternatives a separate handle system may be attached to the main body. In some particular case, the bag may be such that the main body comprises four or more pairs of holes or eyelets, wherein in the extended configuration two pairs are arranged at opposite sides of the main body and at the same first height along the longitudinal axis of the main body and the other two pairs are arranged at opposite sides of the main body and at the same second height along the longitudinal axis of the main body, wherein the first height is different than the second height.

[0038] In some of the examples comprising lids, the bag may further comprise a garment rolling guide attached to any of the lids or to the main body. When the bag is in its extended configuration, the provision of a garment rolling guide allows transportation of pieces of garment in a rolled condition thus reducing wrinkling. Transporting garments in a rolled up condition further contributes to optimizing the use of space as a rolled configuration that has a substantially overall tubular appearance may fit in a quite reduced space and at the same time the rolling condition of the garment prevents wrinkling. Moreover, carrying garments in a rolled up condition makes the transportation easier than with traditional garment bags. In some cases, the rolling guide may be extendable, foldable, retractable or telescopic so as to fit inside the compressed configuration of the main body. The use of these bags may also be of interest e.g. for a point of sales of reduced size and high density of potential customers such as e.g. in airport stores or even outdoor spaces in which displaying of garments may be complicated. In these cases, provided the main body is made of a translucent material, the clothes can be exhibited while they are packed. The store can thus optimize its use of the space, increase the number of items offered for sale, and even improve on security, as the bags substantially as hereinbefore described may be closed/lock with locking systems. Last but not least, selling the garments inside a bag substantially as hereinbefore described involves that the customers do not need to worry about wrinkling of the newly acquired items. In some of these examples, additional components may be added to the rolling guide, such as a rolling sheet to place the garment before rolling or a clipping device to support the process of rolling by reducing movement of the garment. In some examples, more than one garment may

be rolled up together in the same bag substantially as hereinbefore described. If more than one garment is rolled up, a protection sheet of light material may be used between the different pieces of garment to separate them and provide extra protection. In some examples where a garment rolling sheet is provided, the sheet may be automatically rolled-up or stretched, in a fashion that is similar to projection screens or window shades. In some examples the rolling guide may be configured to fit inside the lids when the main body is in the compressed configuration while in other examples the rolling guide may be removable. In other examples the rolling guide may compress one or more rails, rods or bars around which a garment is to be wrapped. In some examples said rails or bars may be the same material of the bag while in other examples it may be different materials. In some examples the garment rolling sheet further comprises fastening members to firmly secure a garment while allow rolling the garment.

[0039] In some examples, the main body of the bag may be provided with one or more supplementary storage compartments. In other examples, one or more of the lids may be provided with supplementary storage compartments. Combinations thereof may also be possible. These compartments provide extra storage capacity. In some of these examples, the supplementary storage compartments may be internal or external or combinations thereof. Some compartments may further be permanent while others may be removable. Some compartments may be provided with a configuration such that they allow the combination of different bags as substantially hereinbefore described in a modular manner.

[0040] In some examples, additional components such as hooks or wheels may be attached to the lids or the main body to facilitate its storage or transportation. In some cases, the hooks and/or the wheels may be removable.

[0041] In a further aspect, another example of travel bag is provided. The travel bag may comprise a first lid extending from an inner open end to an outer closed end, and a second lid extending from an inner open end to an outer closed end, wherein the inner open ends of the first and second lids have a geometry defined as a function of a substantially rigid or semi-rigid elongated article to be transported such that the elongated article can be snap fitted inside the inner open ends. These examples may be used for carrying rigid elongated articles such as an instrument or semi-rigid articles such as yoga-pilates mat in a rolled up condition.

[0042] In some of these examples, the elongated article may comprise a rolling sheet in which a garment may be placed before rolling, with or without the existence of a rolling guide. Once the garment is rolled up with the rolling sheet the resulting tubular article may be connected to the lids for transportation substantially as hereinbefore described.

[0043] In some examples, the rolling sheet may be formed from layers of materials and may be rigid or semi rigid. Such a rolling sheet may be continuous or with folding lines to allow a tube-like form once it is rolled up.

[0044] In a still further aspect, a portable mat is provided. The portable mat comprises an elongated body extending from a first end to a second end, wherein the elongated body is made of a substantially rigid or semi-rigid material and comprises a plurality of folding lines arranged substantially perpendicularly to a longitudinal axis of the elongated body.

[0045] In some cases, the portable mat may comprise a plurality of rigid or semi-rigid slats that may be held together with straps of e.g. a fabric hinge material adhered to edges of the rigid slats acting as folding lines thus resulting in a mat that can be rolled up in a tubular-like form. The mat may further comprise foldable handles. The mat may be configured to adopt different shapes by folding along a portion or the totality of the folding lines. In a fully extended configuration the mat may be used as yoga-mat or towel and in a compressed configuration, created by folding a portion or the totality of folding lines, the mat can be converted into a bag that can be carried through the foldable handles.

[0046] The mat may be configured to adopt different shapes and define at least an extended configuration in which the elongated body can be laid flat, and a compressed configuration in which the elongated body is folded at the folding lines, wherein the elongated body comprises one or more foldable handles configured to project out of an outer surface of the elongated body when it is in the compressed configuration. According to this aspect, by extending the foldable handles the mat can be transported in the compressed configuration and by folding the handles the mat can be used as a mat as such.

[0047] In some examples, the material of the main body (and/or the material of one or more lids) may be the same throughout its length or may have different materials on different parts or surfaces. In other examples, the lids may be made of the same material while in others they may be made of different materials. In some examples, the material of the lids and the main body may be the same, while in others such materials may be different. Such materials may be selected from, but not limited to: paper, metal paper, cork, bamboo, carbon fiber, nylon, fiberglass, polyester, polymers, plastics, leather, graphite, cardboard, foam, cotton, and other fabrics, leather, wood, graphite, rubber, thermo-formable materials, elastomers, shape-memory alloys, aramid fibers (e.g. Nomex® or Kevlar®), aluminium and other lightweight metals, recycled materials, jute, composites, or combinations thereof. In some cases, the material may have flat surfaces while in others it may comprise textures, reliefs or embossing to provide higher mechanical resistance or non-slippery properties. In more examples, an open mesh to provide mechanical protection may be foreseen. Such materials may be opaque, translucent or transparent. In some examples, different treatments or finish materials may be applied to any of the surfaces, including, but not limited to treatments for waterproofing, anti-scratch and stain resistance. In more examples, the inner surface may be different than the outer surface.

[0048] In some examples, in the extended configuration the main body may have a shape having a cross-section with a shape selected from, but not limited to, circular, oval, elliptical, triangular, square, hexagonal, or similar shape. In more examples, the extended configuration may have a non-tubular design, such as a substantially conical, irregular or cube design. In some examples a bag substantially as hereinbefore described may be rigid, semi-rigid, soft-sided, flexible, or inflatable, or combinations thereof. In some examples the bag may vary in cross-section along its length.

[0049] In yet another aspect a method of storing and/or selling garments is provided. The method comprises providing a plurality of garments, wrapping each garment into a portable bag substantially as hereinbefore described, and, accommodating the bags in a horizontal configuration in

rows, one next to the other and a row above the other. Packing garments in a rolled condition ensure minimum wrinkling of the clothing. Furthermore, the space needed for storing a rolled garment with bag is substantially smaller than that need for an extended piece of clothing. This combination of reduced size/minimum wrinkling is of special interest in small stores with a high rate of potential customers such as airport stores, or in those cases where wrinkle-free clothes are given a special attention. The provision of e.g. mats inside the bags prior to storing them thus reduces the risk of the mats being flattened due to the weight of other mats being placed on top that is shown in FIG. 27. The possibility of placing other elements such as bar codes and/or tags in the lids or the main body substantially as hereinbefore described further facilitates the logistics of the storage (and transport) of the wrapped garments. Moreover, the reduced space occupied by the bags in its compressed configuration, also facilitates transportation and storage of the bags when they are not being used for placing e.g. garments inside.

[0050] Another aspect provides a method of displaying and/or selling garments or other pieces of fabrics such as towels. The method comprises, providing a plurality of garments, wrapping each garment into a portable bag substantially as hereinbefore described wherein the main body of the bag is substantially translucent or transparent. The method further comprises hanging the bags from a bar of a display. In some examples, the display may comprise a straight or rounded bar. Again, the combination of reduced size/minimum wrinkling provided by a garment rolled into a bag substantially as hereinbefore described in combination with a translucent or transparent bag is the key to this display method which is of special interest in small stores with a high rate of potential customers such as airport stores, touristic areas with a lot of flow of people or even for those shops or retailers where unconventional sales methods are required.

[0051] Alternatively, an opaque bag may also be used. In these cases, an outer surface of the main body may be provided with diagrams or characteristics of the garment housed inside such a bag. Moreover, the traditional method of displaying garments, especially in the case of suits, usually requires a back wall for them to be displayed. This reduces the options of displaying when no wall is available. The methods of displaying garments substantially as hereinbefore described allow displaying the garments independently on the presence (or not) of a wall thus increasing the potential area for displaying.

[0052] It is yet another aspect of some embodiments of the present invention to provide a travel bag comprising: a main body extending from a first end of said main body to a second end of said main body, and configured to assume an extended configuration for transportation of one or more elongated articles, and a compressed configuration for use other than transportation of the elongated article, a first lid extending from an inner open end of said first lid to an outer closed end of said first lid, a second lid extending from an inner open end of said second lid to an outer closed end of said second lid, defining an outer surface of said second lid and an inner surface of said second lid; wherein the distance between the first end of the main body and the second end of the main body is larger in the extended configuration than in the compressed configuration, wherein in the extended configuration, the main body first and second ends are

respectively connected to the inner open ends of the first and second lids such that a substantially elongated storage housing is defined within the main body, and wherein in the compressed configuration, the second lid inner end is connected to the first lid inner end to define an alternative storage housing that is smaller than the elongated storage housing within the outer ends of the first and second lids.

[0053] The Summary of the Invention is neither intended nor should it be construed as being representative of the full extent and scope of the present invention. That is, these and other aspects and advantages will be apparent from the disclosure of the invention(s) described herein. Further, the above-described embodiments, aspects, objectives, and configurations are neither complete nor exhaustive. As will be appreciated, other embodiments of the invention are possible using, alone or in combination, one or more of the features set forth above or described below. Moreover, references made herein to “the present invention” or aspects thereof should be understood to mean certain embodiments of the present invention and should not necessarily be construed as limiting all embodiments to a particular description. The present invention is set forth in various levels of detail in the Summary of the Invention as well as in the attached drawings and the Detailed Description of the Invention and no limitation as to the scope of the present invention is intended by either the inclusion or non-inclusion of elements, components, etc. in this Summary of the Invention. Additional aspects of the present invention will become more readily apparent from the Detail Description, particularly when taken together with the drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0054] The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate embodiments of the invention and together with the general description of the invention given above and the detailed description of the drawings given below, serve to explain the principles of these inventions.

[0055] FIG. 1*a* shows a travel bag according to an example;

[0056] FIG. 1*b* shows a travel bag according to another example;

[0057] FIG. 2 shows the travel bag of FIG. 1*a* in different configurations;

[0058] FIG. 3 shows a travel bag as that of FIG. 1*b* in different configurations;

[0059] FIG. 4 shows an example of the travel bag of FIG. 1*b* in different configurations;

[0060] FIGS. 5*a-5d* show four examples of the overall appearance of a travel bag in the extended configuration;

[0061] FIG. 6 shows a mat and the travel bag of FIG. 1*a* in different configurations;

[0062] FIG. 7 shows a mat and the travel bag of FIG. 4 in different configurations;

[0063] FIG. 8 shows a person carrying the travel bag of FIG. 1*a* in the extended configuration;

[0064] FIG. 9 shows a person using the travel bag of FIG. 1*a* in the compressed configuration;

[0065] FIG. 10*a* shows an exploded view of an example of the travel bag of FIG. 1*a* in the extended configuration;

[0066] FIG. 10*b* shows an exploded view of the travel bag of FIG. 1*b*;

[0067] FIGS. 11*a-11f* show further examples of the travel bags of FIGS. 1*a* and 1*b* in the extended configuration;

[0068] FIGS. 12*a-12d* show the travel bag of FIG. 1*a* in the extended configuration being carried by a person in different ways;

[0069] FIGS. 13*a-13b* show the travel bag of FIG. 1*a* in the compressed configuration being carried by a person in different ways;

[0070] FIGS. 14*a-14f* show examples of locking systems for the lids of the bag of FIG. 1*a* in the compressed configuration;

[0071] FIG. 15 shows a cross-sectional view of the travel bag of FIG. 1*a* in the extended configuration;

[0072] FIG. 16 shows examples of external supplementary storage compartments in the travel bag of FIG. 1*a* in the extended configuration;

[0073] FIG. 17 shows examples of internal supplementary storage compartments in the lids of the travel bag of FIG. 1*a*;

[0074] FIG. 18 shows a hanger element in the lids of the travel bag of FIG. 1*a*;

[0075] FIG. 19 shows a rolling garment sheet according to an example;

[0076] FIG. 20 shows an example of a garment rolling guide;

[0077] FIG. 21 shows an example of a garment rolling guide being inserted into a travel bag;

[0078] FIG. 22 shows an example of travel bag in the extended and compressed configurations;

[0079] FIGS. 23*a-23f* show examples of travel bags of FIG. 1*a* in the extended and compressed configurations;

[0080] FIGS. 24*a-24d* show examples of the travel bag of FIG. 1*b* in the compressed configuration;

[0081] FIG. 25 shows an exploded view of a travel bag according to an example;

[0082] FIG. 26 shows a mat and the travel bag of FIG. 25 in different configurations;

[0083] FIG. 27 shows a traditional storage of mats;

[0084] FIG. 28 shows a traditional display for selling garments;

[0085] FIG. 29 shows examples of locking systems for travel bags in the extended configuration;

[0086] FIG. 30 shows an example of a plurality of travel bags in the extended configuration being displayed on a clothing rack;

[0087] FIG. 31 shows a flow chart of an example of a method of displaying, selling or storing yoga mats being placed in a travel bag substantially as hereinbefore described; and

[0088] FIG. 32 shows a flow chart of an example of a method of displaying, selling or storing garments being placed in a travel bag substantially as hereinbefore described.

[0089] It should be understood that the drawings are not necessarily to scale. In certain instances, details that are not necessary for an understanding of the invention or that render other details difficult to perceive may have been omitted. It should be understood, of course, that the invention is not necessarily limited to the particular embodiments illustrated herein.

DETAILED DESCRIPTION

[0090] Throughout the following figures the same reference numbers will be used for matching parts.

[0091] FIG. 1*a* shows a travel bag 100 according to an example. The travel bag 100 of this example comprises a main body 130 that may extend from a first end 1301 to a

second end **1302** to define an extended configuration. The main body **130** may further be configured to adopt a compressed configuration (shown in FIG. 2). The travel bag **100** may further comprise a first lid **110** that may extend from an inner open end **1101** to an outer closed end **1102** and a second lid **120** that may extend from an inner open end **1201** to an outer closed end **1202**.

[0092] The first end **1301** of the main body **130** may be connectable to the inner open end **1101** of the first lid **110**. The second end **1302** of the main body **130** may be connectable to the inner open **1201** of the second lid **120**. The first **110** and second **120** lids may be provided with connectors **170** in order to be connectable to the main body **130** to define the extended configuration. In some cases, the connectors **170** may further be able to connect the first **110** and second **120** lids, when the main body **130** adopts the compressed configuration.

[0093] In some examples, the connectors **170** may be selected from the group consisting of zippers, male-female connectors, magnets, pressure fitting, friction fitting, snap fit connectors, clip connectors, latches, buckle connectors, electronic connectors, rubber connectors, threads, clamps or combinations thereof.

[0094] The travel bag **110** may further comprise a handle system **150** that may be connectable to either an outer surface of the main body first **1301** and second **1302** ends or to the first **110** and second **120** lids. See dashed lines of FIG. 1a. In the example of FIG. 1a the handle system **150** is a strap. In alternative examples, the handle system may comprise more than one straps, one or more cords, ribbons, strings, belts, chains, ropes or bands.

[0095] An outer surface of the main body **130** may further be provided with drawings **140**, texts, diagrams, textures, patterns, bar codes or logos. Alternatively, it may be coloured. In more alternatives, drawings and/or texts and/or colouring may be provided in the lids or combinations thereof.

[0096] The outer closed end **1102** of the first lid **110** may comprise a substantially flat surface that may be provided with e.g. an incense burner **116** and an area for ashes **114**. In alternatives, a sculpture, a mirror, a board or combinations thereof may be foreseen.

[0097] FIG. 1b shows another example of travel bag **100** that may be formed in a single piece and comprises a main body **130** that may extend from a first end **110** to a second end **120**. The main body **130** may be made of a substantially rigid or semi-rigid material and may comprise a plurality of folding lines **1300** that may be arranged substantially perpendicular to the longitudinal axis A-A of the main body **130**. In the example of FIG. 1b, the main body **130** may be folded at a portion of the folding lines **1300** to define an extended configuration in which an elongated storage space for receiving a substantially elongated article is defined. In the example of FIG. 1b, only folding lines **1310-1316** are folded to define the extended configuration including an elongated storage space within the main body **130**.

[0098] In the figure on the left, a yoga mat **200** is shown that is ready to be housed inside the elongated storage space. In the figure of the right, the mat **200** is shown to be housed inside the storage space.

[0099] In the example of FIG. 1b, the main body **130** is further provided with holes **135** that may be arranged in pairs. The holes may be configured to receive a back-pack handle system **150**. In this example, four pairs of holes **135**

may be provided. Two pairs may be arranged at opposite sides (along a direction perpendicular to the longitudinal axis) of the main body and at the same first height **H1** along the longitudinal axis A-A of the main body **130**. The other two pairs of holes **135** may be arranged at opposite sides of the main body and at the same second height **H2** along the longitudinal axis A-A of the main body. The first height **H1** may be closer to the first end **110** and the second height **H2** may be closer to the second end **120** when the main body is in the extended configuration. In an arrangement of the main body in which the first end is a top end and the second end is a bottom end, the first height **H1** is higher than the second height **H2**. In the example of FIG. 1b, the back-pack handle system **150** comprises cords or ropes. In alternative examples, bands may be foreseen. The cords, ropes or bands may be used for a different use when the bag is not being used for transportation. In examples, jumping ropes, fitness bands, sculpting resistance bands, resistance bands or cords may be foreseen. The cords may further serve to laterally secure the mat **200** in the storage housing as shown in the figure of the right.

[0100] The folding of lines **1313-1315** may further define a further handle **172** at the first end **110** of the main body **130** in the extended configuration. The handle **172** may be form as a cut out on the rigid or semi-rigid material. In other examples, other folding lines may be folded and the further handle may not be present. See FIG. 4 or 10b.

[0101] In the example of FIG. 1b, a further bending line may fold a portion of the main body having a substantially oval shaped cut-out **165**. The cut out may serve to secure the mat **200** when it is placed inside the storage housing and the fold portion provides stabilization to the main body. See figure on the right.

[0102] In the example of FIG. 1b, the main body **130** may further comprise a pair of foldable handles **1501** that may be configured to project out of its outer surface when the main body **130** is in the compressed configuration. See FIG. 3 (numeric reference **164**).

[0103] In further examples, other number of folding lines may be folded as shown in the examples of FIG. 3 or 4 to define e.g. the compressed configuration. In the example of FIG. 3, the main body **130** may be made of e.g. cardboard. The figure of the right shows substantially no folded lines, the bag is not being formed yet and may function as a towel or mat. The figure of the left shows a compressed configuration of the main body **130** in which all folding lines may be folded. A pair of foldable handles **164** may further be provided configured to project out of the main body **130** outer surface when the main body **130** is in the compressed configuration.

[0104] FIG. 2 shows the example of FIG. 1a in three different configurations. The figure on the right shows the main body **130** in the extended configuration. The lids **110** and **120** may be respectively connected to both ends of the main body **130**. In this example, a stiffening member **134** may further be provided at both ends of the main body **130** to aid connecting the ends with the lids **110** and **120**. A zipper **136** may be provided at the open ends of the lids **110**, **120**. A matching zipper may be provided at the stiffening member or at the ends of the main body when no stiffening member is provided. The zipper **136** connecting the first lid **110** with one end of the main body **130** is also shown in the cross-sectional view of FIG. 15. In alternative examples,

other mechanical closing systems may be foreseen. The stiffening member **134** is also shown in the cross-sectional view of FIG. **15**.

[0105] In this example, the strap **150** may be in the form of a bandolier and may be connected to the second lid **120** through a mechanical coupling such as a button/eyelet coupling **156**. In alternative examples, other mechanical couplings may be foreseen such as clips, hook-and-loop strip, tie strings, Velcro® or similar.

[0106] Further in this example, the main body **130** may be made of a flexible and foldable material and may further be provided with one rod **138** describing a substantially helical shape around the flexible and foldable material to allow instant twist and fold of the main body **130**. In this example, the natural “relaxed” state of the rods may be close to their shape in the extended configuration. To obtain the compressed configuration, the body is compressed, and the various turns of the helical rod are pushed closer together.

[0107] In the example of FIG. **2**, the figure in the middle shows an intermediate configuration in which the main body is partly compressed. In this case, a storage housing (not shown) may be defined within the main body and the lids. The storage housing having a volume that is lower than that of the elongated housing of the extended configuration and that is bigger than that defined within the two lids when the main body is in the compressed configuration. A further mechanical coupling may be provided to lock the bag in this intermediate configuration.

[0108] The figure on the left shows that the two lids **110**, **120** may be connected to each other, to define the compressed configuration. In this example, the compressed main body (not shown) may be housed within a storage housing that may be defined by the lids **110** and **120** connected to each other.

[0109] The example of FIG. **4** differs from the example of FIG. **1b** in that the further handle has been removed. Furthermore, the cords have been replaced by a jumping rope **166**. The final shape is also slightly changed.

[0110] In this example, the figure of the bottom shows the extended configuration and the figures of the top the compressed configuration. In the figure of the bottom, the first end **110** of the main body **130** may be made by merely folding lines **1311-1313**. And an outer surface of the main body may incorporate texts or diagrams **142**.

[0111] In the figure of the top, the main body **130** may be in the compressed configuration, acting as a secondary bag for smaller articles, and the jumping rope **166** may be separated from the bag (and used). A portion of the outer surface of the main body may further be used as a notepad **144** or as a digital screen. A further band or strap **173** may be provided to aid maintain together the main body in the compressed configuration. And the substantially oval shaped cut-out **165** becomes a handle.

[0112] FIGS. **5a-5d** show four examples of overall appearances that a travel bag in the extended configuration may adopt. FIG. **5a** shows a prismatic configuration having a square cross-section. FIG. **5b** shows a prismatic configuration with a cross-section having a pentagonal shape. FIG. **5c** shows a bag with a cross-section having a hexagonal shape. And FIG. **5d** shows a bag with a cross-section having a circular shape. Other polygonal or rounded cross-sections may also be foreseen. The overall appearance of the extended configuration may thus be considered substantially tubular.

[0113] FIG. **6** shows the travel bag of FIGS. **1a** and **2** with a mat **200**. The sequences of figures from left to right show the steps for rolling the mat and introducing it inside the bag to get ready for transport. The first step starts with the bag in the compressed configuration. In this configuration an incense stick **1161** may be placed in the incense burner as explained in connection with FIG. **1a**. The first step may comprise rolling up the mat **200**. See arrows F1. Once the mat is rolled up, the second step may comprise starting expansion of the main body. See arrows F2. When the main body **130** is in the extended configuration, the third step may comprise opening the first lid **110** by unzipping zipper **136** and introduce the folded mat **200** inside the elongated storage housing defined in the extended configuration (explained in connection with FIG. **1a**). See arrows F3. The last step may comprise closing the first lid **110**.

[0114] FIG. **7** shows the travel bag of FIG. **4** with a mat **200**. The sequences of figures from left to right show the steps for rolling up the mat and introducing it inside the bag to get ready for transport. The first step starts with the bag in the compressed configuration and the strap/rope or cords in a released configuration, i.e. being usable e.g. as a jumping rope as explained in connection with FIG. **1b**. This compressed configuration may allow storage or transportation of other items such as shoes **4000**, cell phones **4001** or other items that might require storage while practicing yoga or related activities. The first step may comprise rolling up the mat **200** as explained in connection with FIG. **6**. Once the mat is rolled up, the second step may comprise starting expansion of the main body. To do this the strap **173** needs to be unfasten and the rope may be provided through the eyelets. When the main body **130** is in the extended configuration, the third step may comprise introducing the folded mat **200** inside the elongated storage housing defined in the extended configuration (explained in connection with FIG. **1b**). When doing this, care should be taken to introduce the mat within the oval cut-out **165** as explained in connection with FIG. **1b**, which may also act as a handle in the compressed configuration.

[0115] FIG. **8** shows a person carrying the bag of FIG. **1a**, **2** or **6** in the extended configuration being used to transport an elongated element, e.g. a yoga mat. In this example, the handle system **150** may be a belt **154** that may comprise rings **169** to adjust its length.

[0116] FIG. **9** shows a person using the bag of FIG. **8**. The person may actually be using the mat **200** for practising yoga while the bag may be in the compressed configuration in which the incense burner **116** may be used. Furthermore small items such as keys, mobile phone, or purse may be housed inside the storage space defined by the two lids **110** and **120** being fasten to each other defining the compressed configuration.

[0117] FIG. **10a** shows an exploded view of the travel bag of FIG. **1a**, **2** and **6** in the extended configuration. In this exploded view the connector **170** of the first lid **110** may comprise a stiffening member **134** with a zipper **136** and the main body first end may also comprise a stiffening member **134** with a matching zipper **136**. The strap **150** may be in the form of a belt **154** and may be connected to the main body through a mechanical detachable coupling such as a button/eyelet coupling **156**. In alternative examples, other mechanical couplings may be foreseen such as clips, hook-and-loop strip, tie strings, Velcro® or similar. The belt **154** may be made of textile, leather or similar. The belt may be con-

nected to the main body with a fixed stitching **152** or similar. The stitching **152** is also shown in the cross-sectional view of FIG. **15**. Having one end fixed and the other detachable ensures that the belt remains fixed to the main body but does not hinder compressing it into the small storage housing in the compressed configuration. In alternative examples, other ways of attaching the belt or strap to the main body may be foreseen, e.g. the strap may comprise two fixed stitching at both ends of the main body or two mechanical joints buttoned type or clip may be foreseen. In these cases, the strap may be released from the main body and may have a further use, e.g. jumping rope, resistance bands. Alternatively, two slings or ropes may be provided such that the bag can be converted into a back-pack.

[0118] FIG. **10b** shows an exploded view of the travel bag of FIGS. **4** and **7** in the extended configuration. The strap **173** for holding together the bag in the compressed configuration is identified and is attached to the main body (it has no use in the extended configuration). A further tongue **171** is shown at the second end **120** which aids completing the folding and maintaining its folded condition in the extended configuration

[0119] FIG. **11a** shows the example of FIG. **1b** (figure on the left) in the extended configuration in which the pair of foldable handles has been removed.

[0120] FIGS. **11b-11f** show further examples of the travel bag of FIG. **1a** in the extended configuration.

[0121] FIG. **11b** shows an example in which the main body (of the travel bag) as such is left out. This way, the travel bag may comprise only a first lid **110** and a second lid **120**. This example may be used for transportation of rigid or semi-rigid elongated articles such as the yoga mat in a rolled condition. The first end **110** that may extend from an inner open end to a closed end and the second end **120** may also extend from an inner open end to a closed end. The rolled mat may be inserted into the inner open ends of the first **110** and second **120** lids.

[0122] The lids **110** and **120** may be provided with fastening connectors **170** able to connect each other when the mat is removed to define a compressed configuration.

[0123] In this example, the inner open ends of the first and second lids may have a geometry that may be defined as a function of the substantially rigid or semi-rigid elongated article to be transported, e.g. the rolled mat, such that the rolled mat can be snap fitted inside the inner open ends. In alternative examples, the inner open ends of the first and second lids may be provided with mechanical-based fastening elements able to fix the rolled mat (or any other elongated article) to be transported to the first and second lid.

[0124] A handle or strap **174** may further connect the first lid **110** to the second lid **120** to provide a handling system and more rigidity or stability to the bag in the extended configuration. A handle system **150** may be provided in e.g. the first lid **110** (or in the second lid or in both lids).

[0125] FIG. **11c** and FIG. **25** or **26** show an example in which the main body may be made of a rigid or semi-rigid foldable material such as cardboard, plastic, rubber or alike. In these examples, the main body may comprise a plurality of folding lines that may comprise a combination of triangles forming a faceted-like surface so as to fold like an accordion or origami when the main body is in the compressed configuration. The main body may be connectable to a first and second lid substantially as explained in connec-

tion with FIG. **1a**, **4**, **6** or **10a**. Alternatively, the folding lines may be a series of parallel lines that may be arranged substantially perpendicular to the longitudinal axis of the main body so as to fold like an accordion when the main body is in the compressed configuration.

[0126] The example of FIGS. **25** and **26** differ from that of FIG. **11c** in that the main body and the lids may be made from a single piece. A further difference is the shape of the lids. In the example of FIG. **25** the lids are hexagonal whereas in the example of FIG. **11c** the lids are circular. Other shapes may also be foreseen. In FIG. **25** the figure of the left shows the cardboard, plastic, rubber or alike in a cut condition with the folding lines shown in sketch or interrupted lines. In this example, the main body may have a substantially rectangular shape and the folding lines may comprise parallel lines **230** in the direction of the longer sides of the rectangular shape and parallel lines **231** in the direction of the shorter sides of the rectangular shape thus defining a plurality of small squares. The folding lines may further comprise parallel diagonal lines **232** traversing vertices of the squares. The figure of the right shows some folding lines in a folded condition to form the lids **110**, **120** and lines **230** folded to form part of the main body. Glue or other adhesive may be used to put together the side ends of the main body and lines in a folded condition forming the lids. Instead of glue, other components may be added to connect the side ends of the main body with elements such as zips, male-female connectors, magnets, pressure fitting, friction fitting, snap fit connectors, clip connectors, latches, buckle connectors, electronic connectors, biometric or other password locks of any kind, rubber connectors, threads, clamps or other mechanical-based connectors, e.g. Velcro®.

[0127] FIG. **26** shows the travel bag of FIGS. **11c** and **25** with a mat **200**. The sequences of figures from left to right show the steps for folding the mat and introducing it inside the bag to get ready for transport. The first step starts with the bag in the compressed configuration and may comprise rolling up the mat **200**. Once the mat is rolled up, the second step may comprise opening the first lid **110** and starting expansion of the main body by unfolding lines **231** and **232**. When the main body **130** is an intermediate configuration between compressed configuration and the extended configuration, the third step may comprise introducing the folded mat **200** inside the elongated storage housing defined in the intermediate configuration. The last step may comprise completing extension of the main body and closing back the first lid **110**.

[0128] FIG. **11d** shows the example of FIG. **1a** or FIG. **6** in the extended configuration in which the handle system has been removed. In this example, the rod **138** describing a substantially helical shape provided around the flexible and foldable material may be provided in combination with joint means, e.g. a channel **139** formed by sewing a portion of a flexible material to provide housing for the rod **138**. The rod **138** inserted in the channel **139** is also shown in the cross-sectional view of FIG. **15**. The channel **139** may be continuous along the rod **138** or only locally provided along stretches.

[0129] The example of FIG. **11e** differs from that of FIG. **11d** in that two rods **138** may be provided describing substantially helical shapes in opposite directions so as to create crossings **1381** between the two rods **138**. In alternative examples, instead of rods a cable or other rigid and bendable material may be used.

[0130] FIG. 11f shows an example of travel bag in which the main body may comprise two stripes or bands 137 made of an elastic material. Such elastic material may be capable of returning to its original length and shape due to its nature or may be deformed and extended as a result of gravity, due to the load of the lower lid 120. The bands may extend longitudinally to connect the first 110 and the second 120 lids to define the extended configuration. In alternative examples, other number of bands may be foreseen.

[0131] In all cases, an outer surface of the lids may comprise texts, diagrams, drawings, patterns, bar codes, QR codes or any type of logistic and reference code, logos, colours or textures.

[0132] FIGS. 12a-12d show different ways of carrying a travel bag substantially as hereinbefore described in the extended configuration by a person.

[0133] In the example of FIG. 12a a length of the belt 154 may be adjusted such that the bag may be carried as a bandolier.

[0134] In the example of FIGS. 12b and 12d the belt may be adjusted (e.g. through the rings 169) as a waist strap 167 and may be provided with an extension 1671 to add stability. Alternatively, a strap or grip 168 to the leg may further be provided.

[0135] In the example of FIG. 12c the belt may be replaced by two straps or ropes 166 such that the bag can be carried as a back-pack.

[0136] All these examples allow a hands free transport of the bag.

[0137] In all cases, the handle system may be folded inside the lids in the compressed configuration or may be fully removable while in such a compressed configuration.

[0138] FIGS. 13a-13b show different ways of carrying examples of a travel bag substantially as hereinbefore described in the compressed configuration. In these examples, the lids 110 and/or 120 may be provided with fastening elements such that the belt (or strap) 154 used to carry the bag in the extended configuration can be adjusted to an outer surface of one or more of the lids 110 and 120. Mechanical joints such as clips, Velcro® or buttons (156) may be foreseen. The compressed configuration can thus become a traditional hanging bag as shown in FIG. 13a). Alternatively, the belt or strap may be replaced by handles 164 to transform the travel bag into a grab hand bag as shown FIG. 13b.

[0139] In all these cases, only shown in FIG. 13b, one or more of the lids may comprise one or more external pockets 118. The pocket 118 is also shown in FIG. 15 although in the example of FIG. 15 the pocket may be located inside the lid.

[0140] In the example of FIG. 16 one or more supplemental storage compartments 180 may be provided in any one of the main body 130 or the first 110 and second 120 lids, or combinations thereof. These compartments 180 may be suitable for carrying personal objects of the user such as mobile phones, purse or keys. Other uses may also be foreseen.

[0141] FIG. 17 shows a top view of any of the lids 110 (or 120) that may be provided with an internal pocket 118 with its own closure system 119. In more examples, other number of internal or external pockets may be foreseen. In yet more examples, some of these pockets may be removably arranged, i.e. they may be stuck to an outer surface by e.g. Velcro®. In other examples, the pocket may be permanently arranged.

[0142] FIGS. 14a-14f show examples of locking systems for the lids of a bag of FIG. 1a, 4, 6 or similar in the compressed configuration, i.e. locking systems between the first 110 and second 120 lids. As a general rule, the locking system may be visible or not depending on its own design. Examples of visible locking systems are provided in FIGS. 14a-14d and examples of invisible locking systems are provided in FIGS. 14e and 14f. Other alternatives may also be foreseen.

[0143] In the example of FIGS. 14a and 14b, the locking system may comprise a button/eyelet coupling 156 in combination with one or more bands 171. The bands 171 may be sewn 152 to the lids or they may be separate. In the example of FIG. 14c the button coupling 156 may be tied with a cord 176 or similar. In the example of FIG. 14d the locking system may comprise an elastic band 173 that may be arranged around the two lids 110 and 120 being brought together. In this example, the elastic band 173 may have a further use (in combination with the transport of a mat). It may be used as a resistance band for the practise of yoga or pilates. The button coupling 156 is also shown in the cross-sectional view of FIG. 15.

[0144] In the example of FIG. 14e, the locking system may comprise a matching thread at each open end of the first 110 and second 120 lids. And, in the example of FIG. 14f, the locking system may comprise a pair of magnets 174 at each open end of the first 110 and second 120 lids.

[0145] FIG. 18 shows an example of a hanger element that may be provided in any of the lids 110 and/or 120 of a travel bag substantially as hereinbefore described. In an example, the hanger element may be a hook 124 that may be hidden inside the outer closed end of any of the lids 110 or 120. To hide the hook 124 a rotatory notch/cover 122 (or notch with cover) may also be provided. FIG. 18 further shows a sequence from left to right showing how the hook 124 may be extracted. The sequence starts with a closed end of the second lid 120. The notch/cover 122 is rotated (see arrow N1) so as to discover the hook 124. In the next step, the hook 124 is pivoted upwards (see arrow N2) so as to become unfolded.

[0146] FIG. 19 shows a rolling garment sheet 191 that may be used to fold a garment. The sheet 191 may be rectangular. In more examples, the sheet may have a shape equal or similar to that of the garment to be wrapped, e.g. jacket, shirt, suit, dress. The rolling sheet may be made of a flexible or continuously bendable (in at least a primary rolling direction) material. Alternatively, it may be provided with a plurality of folding lines arranged perpendicularly to the primary rolling direction. In the example of FIG. 19, a method of storing a suit 193 inside a bag substantially as hereinbefore may further be explained. The sheet 191 may be arranged horizontally, the suit 193 may be provided on top of the sheet 191 and the arrangement sheet-suit (191+193) may be rolled-up to define a tubular body that may be fitted inside a bag (shown in broken lines) substantially as hereinbefore described. This packing system can reduce wrinkling of the garment. This packing and transportation of the garment may be of special interest e.g. in case of travelling with jackets by plane or at in hot climates where the garment can be carried in the travel bag before a meeting and then wear it upon arrival and juts during the event, ensuring or at least enhancing the possibility that there are no wrinkles: At the same time, saving space as the com-

pressed configuration of the travel bag may be used as an elegant small accessory substantially as hereinbefore explained.

[0147] FIG. 20 shows a further example in which the rolling sheet 191 may be combined with a rolling guide. The rolling guide may be provided with a clipping system to fasten a garment to be rolled-up while it is being rolled-up. The clipping system may comprise two bars or rods 197 and 16 that are separable (see broken lines) from each other thereby fixing the suit 193 to be wrapped. In more examples, the two bars may be replaced by one or more clips or two fixed bars at one end. The provision of two bars enhances the ironing effect of the rolled condition in a garment.

[0148] In some cases, as shown in FIG. 20, the rolling sheet 191 may further comprise fastening members 195 to firmly secure the suit 193 while it is being rolled-up.

[0149] In some cases the garment rolling sheet is flexible or continuously bendable in at least a primary rolling direction or is provided with a plurality of folding lines arranged perpendicularly to the primary rolling direction. In other examples the rolling sheet is rigid or semi-rigid so as to be self-held in a tubular form once it is rolled-up. In further examples the garment rolling sheet is rectangular or has a shape substantially equal to that of a garment to be wrapped, while in other examples the rolling sheet further comprises fastening members to firmly secure a garment while allow rolling of the garment.

[0150] In more examples, a cover may be provided on top of the garment to further protect it while being transported. In more examples, the sheet may comprise one or more cut-outs through which the garment to be rolled-up can be at least partially inserted. And in yet more examples, a motor may be provided to automate the rolling of the sheet, similarly to rolling window shades or projection screens.

[0151] The rolling guide may be made of bamboo, paper, metal paper, cork, carbon fiber, nylon fiberglass, polyester, polymers, leather, graphite, cotton or other fabrics, foam, cardboard, plastics, rubber, thermos-formable materials, elastomers, shape-memory alloys, aramid fibers, aluminium and other light metals, recycled materials, biodegradable materials, jute, composites or aerogels.

[0152] FIG. 21 shows an example of the garment rolling sheet with the suit being inserted (see arrow B) into a travel bag substantially as hereinbefore described. In this example, one of the lids may be provided with a hanger element 199 that may be fixed or removable. Velcro®, clips, hook-and-loop string or any other closing system may be foreseen for ensure locking of the packed suit.

[0153] The example of FIG. 22 differs from that of FIG. 1a, 4 or 6 in that the lids 110 and 120 may be compacted, i.e. a distance between an open end and a closed end of each of the lids 110 and 120 may be minimal, or they may even be virtually coincident. In these examples, an outer surface of the closed end of the lids 110 and/or 120 may comprise elements such as a mirror, note pad, digital screen or an area to expose inspirational, marketing or logistic features such as texts, diagrams, textures, drawings, patterns, bar codes, QR codes, logos or colours.

[0154] FIGS. 23a-23f show examples of travel bags in the extended and compressed configurations showing different alternative uses of the compressed configuration. These examples differ in the way the lids are built or fitted to allow any of this or other use. In the example of FIG. 23a at least one of the lids may be provided with an incense burner 116

as explained in connection with FIG. 1a. In the example of FIG. 23b, at least one of the lids may be provided with a speaker 302. Alternatively, one more electronic devices selected from a further speaker, a media player, a geolocation device, a digital screen, a light, a plug or an electronic ink display may be provided. In the example of FIG. 23b, at least one of the lids may be provided with a portable battery 304 for charging electronic devices. In more examples, other power sources selected from photovoltaic chargers, piezo-electric or kinetic chargers or any other portable energy device or power source able to charge a user electronic device may be foreseen.

[0155] In the example of FIG. 23d at least one of the lids may be provided with a sculpture 306. In the example of FIG. 23e at least one of the lids may be made rigid enough to be used as a seat 308. In the example of FIG. 23f at least one of the lids may be made of foam or cork to provide a yoga-pilates block usually used in the practise of these activities.

[0156] FIGS. 24a-24d show examples of the travel bag of FIG. 4 or 7 in the compressed configuration. In the example of FIG. 24a, a portion of the outer surface of the main body may be used as a notepad 314 in a similar manner as explained in connection with FIG. 4. This configuration may also function as a bag for articles that are smaller than the elongated article to be carried in the extended configuration. In the example of FIG. 24b this portion of the outer surface may be used to show a text or drawings. FIGS. 24c and 24d show alternative uses of the ropes or cords or bands used to close the bag in FIGS. 1b, 4 or 7. In FIG. 24c a jumping rope 318 is shown and in FIG. 24d a resistance band 319.

[0157] In some examples, the main body may be made of transparent or translucent materials. FIG. 29 shows examples of bags having a main body that is at least partially made of a transparent or translucent material. In these examples, the portion of the main body made of a transparent material is denoted with numeric reference 133 whereas the portion that is made of an opaque material is denoted with numeric reference 132. A locking system 320 may further be provided. The locking system 320 may be configured to authorize or control the opening of the bag.

[0158] In some examples, the locking system may comprise any of biometric locks, digital, electronic, magnetic, mechanical password locks or near-field communications.

[0159] In these examples, the bag may further solve a problem of displaying garments in reduced size stores as the garments may be displayed in a rolled condition hung from a relatively small display. FIG. 30 shows an example of a plurality of bags containing, e.g. a suit, being displayed in a hung condition from a clothing rack. A mannequin may be provided on top of the clothing rack wearing the garment that represents the style of the rest of the garments packed and displayed in the rack. This way the actual cloth, its texture and design can be exhibited without the need to take out the garments from the bags.

[0160] FIGS. 27 and 28 display traditional set-ups for selling yoga-mats and garments respectively.

[0161] FIG. 31 shows a flow chart of an example of a method of displaying or storing yoga mats being placed in a travel bag substantially as hereinbefore described. The process starts at step 201 with a travel bag according to any of above examples and a yoga-pilates mat to be rolled up and store within the bag. The yoga mat is laid flat. At step 202 the yoga mat is rolled up. At step 203, the rolled yoga mat

is inserted into the bag (see e.g. FIG. 6, 7 or 26). At this point, examples of the storing process may comprise e.g. accommodating the bags in a horizontal configuration in rows, one next to the other and a row above the other and examples of a displaying process may comprise hanging the bags from a display rack.

[0162] FIG. 32 shows a flow chart of an example of a method of displaying garments being placed in a travel bag substantially as hereinbefore described. The process starts with a plurality of travel bags according to any of above examples and a plurality of garments, e.g. suit, shirts, dresses, jackets, to be rolled-up and stored within the bag. The first step **301** involves laying a garment rolling sheet substantially as hereinbefore described in an extended condition, i.e. substantially flat (see FIG. 20). At step **302** a piece of garment is laid flat on the rolling sheet. After this, two optional steps may follow, either alone or in combination. In a first optional step **303**, the piece of clothing is secured to the garment sheet to prevent the clothing from slipping off or moving while rolling up. And/or in a second optional step **304**, the rolling sheet is secured to a rolling guide to ensure the clothing is properly rolled-up (see FIG. 20). At step **305** independently from steps **303** and/or **304**, the piece of clothing and garment rolling sheet are rolled-up to form a tight roll to prevent wrinkling and other deformations of the clothing. At step **306**, the rolled garment and sheet are inserted into the bag (see e.g. FIG. 21). At this point, examples of the displaying process may comprise hanging the bags from a display rack. The disclosed displaying method involves that each piece of clothing is previously stored within the bag and then the plurality of bags housing the pieces of clothing is hung from the display rack.

[0163] In some examples, as explained before, the bags with the mats or the pieces of clothing may be locked or sealed.

[0164] While various embodiments of the present invention have been described in detail, it is apparent that modifications and alterations of those embodiments will occur to those skilled in the art. It is to be expressly understood that such modifications and alterations are within the scope and spirit of the present invention, as set forth in the following claims. Further, it is to be understood that the invention(s) described herein is not limited in its application to the details of construction and the arrangement of components set forth in the preceding description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced or of being carried out in various ways. Also, it is to be understood that the phraseology and terminology used herein is for the purpose of description and should not be regarded as limiting. The use of “including,” “comprising,” or “having” and variations thereof herein is meant to encompass the items listed thereafter and equivalents thereof as well as additional items.

What is claimed is:

1. A travel bag comprising:

a main body extending from a first end of said main body to a second end of said main body, and configured to assume an extended configuration for transportation of one or more elongated articles, and a compressed configuration for use other than transportation of the elongated article,

a first lid extending from an inner open end of said first lid to an outer closed end of said first lid,

a second lid extending from an inner open end of said second lid to an outer closed end of said second lid, defining an outer surface of said second lid and an inner surface of said second lid;

wherein the distance between the first end of the main body and the second end of the main body is larger in the extended configuration than in the compressed configuration,

wherein in the extended configuration, the main body first and second ends are respectively connected to the inner open ends of the first and second lids such that a substantially elongated storage housing is defined within the main body, and

wherein in the compressed configuration, the second lid inner end is connected to the first lid inner end to define an alternative storage housing that is smaller than the elongated storage housing within the outer ends of the first and second lids.

2. The travel bag of claim **1**, wherein the first and second lids are provided with corresponding connectors for establishing a detachable connection between each other.

3. The travel bag of claim **1** wherein one or more of the first and second lids comprises one or more electronic devices selected from a media player, a geolocation device, a digital screen, a light, a speaker, a plug, an electronic ink display, or a power source.

4. The travel bag of claim **2** wherein a distance between an open end and a closed end of one of the first and/or second lids is minimal such that they substantially define two opposite surfaces of said lid as a substantially flat element.

5. The travel bag of claim **2** wherein the first lid comprises a substantially flat nature and the second lid comprises a substantially flat nature such that in the extended configuration a substantially elongated storage housing can be defined and in the compressed configuration a substantially flat object can be defined.

6. The travel bag of claim **1** wherein the outer surface of one of the first or second lid, located at the outer closed end of said lids, is provided with an incense burner, a note pad, a mirror or combinations thereof.

7. The travel bag of claim **2** wherein one or more of the first and second lids or the main body comprises motivational, concentration, logistics or marketing elements such as quotes, texts, drawings, diagrams or textures, patterns, technical or installation descriptions, bar codes, QR codes, logistics codes, art representations, logos, colours or combinations thereof.

8. The travel bag of claim **2**, wherein the first and/or the second lids are provided with a locking system configured to authorize or control its opening at the said detachable connection wherein the locking system comprises any of biometric locks, digital, electronic, magnetic, mechanical password locks or near-field communications.

9. The travel bag of claim **1**, wherein one or more of the first and second lids comprise a further handle.

10. The travel bag of claim **1**, wherein one or more of the first and second lids are provided with one or more supplementary storage compartments and wherein said storage compartments are permanently fixed to the lids.

11. The travel bag of claim **2**, wherein at least a portion of the main body is made of a flexible and foldable material, and wherein the main body is further provided with one or

more rods describing a substantially helical shape to allow instant twist and fold of the main body.

12. The travel bag of claim **2**, wherein at least a portion of the main body is made of a rigid or semi-rigid material provided with a plurality of folding lines.

13. The travel bag of claim **1**, wherein the main body comprises two or more bands made of an elastic material, and wherein in the extended configuration, said bands extend longitudinally from the first end to the second end of the main body and they are connected to the first and the second lids.

14. The travel bag of claim **2**, wherein an outer surface of the main body is provided with a fastening system for attachment of a handle system.

15. The travel bag of claim **2**, wherein one or more of the lids are provided with a fastening system for attachment of a handle system.

16. The travel bag of claim **1** further comprising a garment rolling guide attached to any of the lids or the main body.

17. The travel bag of claim **16**, wherein the garment rolling guide is provided with a garment rolling sheet and a clipping system attached to said rolling sheet to fasten a garment to be rolled-up while it is being rolled-up.

18. The travel bag of claim **17**, wherein the garment rolling sheet comprises means to automatically rolled-up.

19. A method of storing garments comprising

providing a plurality of garments,

wrapping each garment into a portable bag according to claims **1**, and,

accommodating the bags in a horizontal configuration in rows, one next to the other and a row above the other.

20. A method of displaying yoga-pilates mats comprising, providing a plurality of mats,

wrapping each mat into a portable bag according to claims **1**, and the method further comprises,

hanging the bags from a bar of a display.

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