

A FOLDABLE COVERING SUITABLE FOR USE WITH A BOX AND A PACKAGING ASSEMBLY IN ASSOCIATION THEREWITH

Field Of Invention

- 5 The present disclosure generally relates to a foldable covering which can be suitable for use with a box. The foldable covering can be coupled to the box in a removable manner so as to form a packaging assembly.

Background

- 10 In the food and beverage (F&B) industry, it is not uncommon for consumers/customers to make take-away (i.e., to go) type orders.

Typically, for such orders, the food item(s) ordered by the consumers/customers would be packed into boxes (i.e., also referable to as takeaway boxes) so that the
15 food item(s) can be conveniently carried out of the F&B establishment.

However, conventional takeaway boxes do not facilitate packing in a convenient/efficient manner.

- 20 Moreover, conventional takeaway boxes do not facilitate consumer convenience when accessing the food item(s) packed therein. Additionally conventional takeaway boxes do not facilitate efficiency in serving of the food item(s) packed therein after delivery. As such, it is appreciable that consumer experience may be adversely impacted.

25 The present disclosure contemplates that there is a need to improve packing efficiency and/or consumer experience.

Summary of the Invention

- 30 In accordance with an aspect of the disclosure, there is provided a foldable covering which can be suitable for use with a box. The foldable covering can be capable of being coupled to the box in a removable manner. Specifically, the foldable covering can be removably coupled to the box.

The box can be capable of being in either a carrier configuration or a tray configuration

5 In one embodiment, the box can include at least one securing part.

In another embodiment, the box can include one or both of at least one holder portion and at least one holder part. The holder portion(s) and/or the holder part(s) can correspond to the securing part(s), according to an embodiment of the
10 disclosure.

In yet another embodiment, the box can include a plurality of holder parts.

The foldable covering can include a handle portion and a body portion. The handle
15 portion can be coupled to the body portion. Specifically, the handle portion can be coupled to the body portion in a foldable manner. More specifically, the handle portion can be foldably coupled to the body portion.

The handle portion can include a first handle sub portion and a second handle sub
20 portion. In one embodiment, the handle portion can further include at least one catch portion.

The body portion can include a first end (i.e., one end) and a second end (i.e.,
25 another end). The first and second ends can be opposing ends of the body portion.

Moreover, the handle portion can be foldably coupled to the body portion in a
manner such that the first handle sub portion can be foldably coupled to one end (i.e.,
the first end) of the body portion and the second handle sub portion can be foldably
coupled to another end (i.e., the second end) of the body portion.

30 Furthermore, the foldable covering can be shaped and dimensioned in a manner so as to be capable of being in either a two-dimensional (2D) configuration or a three-dimensional (3D) configuration.

When in the 2D configuration, the foldable covering can be capable of being laid against a flat surface such that the first handle sub portion and the second handle sub portion are not in contact. Specifically, when in the 2D configuration, the first handle sub portion is not in contact with the second handle sub portion.

When in the 3D configuration, the first handle sub portion can be brought into contact with the second handle sub portion. Additionally, the foldable covering can be capable of being coupled to the box in a form-fitting manner in that the foldable covering can be in a shape which conforms to that of the box.

For example, the foldable covering can be capable of being coupled to the box by manner of being folded and wrapped around at least a portion of the box. Moreover, where the box is, for example, cuboidal in shape, the foldable covering, when folded and wrapped around at least a portion of the box, can, for example, be in a substantially cuboidal form, in accordance with an embodiment of the disclosure.

Moreover, in one embodiment, when the foldable covering is in 3D configuration, the first and second handle sub portions can be capable of being held together by manner of the securing part being coupled to the catch portion. For example, the securing part can be coupled to the catch portion by manner of the securing part being matingly received and retained by the catch portion.

In one embodiment, when the foldable covering is in the 2D configuration, user action is capable of being applied via the holder parts in a manner such that the box is capable of being changed between the carrier configuration and the tray configuration.

In another embodiment, the box can be shaped and dimensioned in a manner so as to define an access section. The access section can be variable in size based on transition in change of the box between the carrier configuration and the tray configuration. Additionally, the size of the access section can be larger when the

box is in the tray configuration relative to the size of the access section when the box is in the carrier configuration.

In accordance with another aspect of the disclosure, there is provided a packaging assembly.

The packaging assembly can include a foldable covering and a box. The box and the foldable covering can be coupled in a removable manner. Specifically, the box can be coupled to the foldable covering in a removable manner. More specifically, the box can be removably coupled to the foldable covering.

The foldable covering can be shaped and dimensioned in a manner so as to be capable of being in either a two-dimensional (2D) configuration or a three-dimensional (3D) configuration.

The box can be shaped and dimensioned so as to be capable of being in either a carrier configuration or a tray configuration.

Moreover, the box is removably coupled to the foldable covering when the foldable covering is in 3D configuration.

Additionally, the box can be capable of being changed between the carrier configuration and the tray configuration when the foldable covering is in 2D configuration.

In one embodiment, the box can be shaped and dimensioned in a manner such that a variable access section can be defined. The variable access section can correspond to an opening which can be variable in size in accordance with transition in change of the box between the carrier configuration and the tray configuration.

Brief Description of the Drawings

Embodiments of the disclosure are described hereinafter with reference to the following drawings, in which:

Fig. 1a and Fig. 1b show a packaging assembly which can include a foldable covering and a box, according to an embodiment of the disclosure;

5 Fig. 2a shows the foldable covering of Fig. 1 in two-dimensional configuration, according to an embodiment of the disclosure;

Fig. 2b shows the foldable covering of Fig. 1 in three-dimensional configuration, according to an embodiment of the disclosure;

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Fig. 3a and Fig. 3b show that the box of Fig. 1 in further detail, according to an embodiment of the disclosure;

15 Fig. 4a shows the box of Fig. 1 in a carrier configuration, according to an embodiment of the disclosure;

Fig. 4b shows the box of Fig. 1 in a tray configuration, according to an embodiment of the disclosure; and

20 Fig. 5 shows a conveying method in association with the packaging assembly of Fig. 1, according to an embodiment of the disclosure.

Detailed Description

25 The present disclosure contemplates that it would be useful to provide a foldable covering which can be folded and wrapped around at least a portion of a box which can be used for carrying at least one food item therein. The foldable covering can be removed from the box if desired.

30 The foldable covering can include a handle portion and the box can include at least one securing part (e.g., in the form of ear(s) and/or flap(s)). In this regard, the foldable covering can, for example, correspond to a sleeve which can be interlocked with the box to form a packaging assembly. Specifically, interlocking can be by manner of the securing part(s) (e.g., in the form of ear(s)) carried by the box being

coupled to the handle portion of the sleeve. Coupling of the securing part(s) and the handle portion can be by manner of the securing part(s) being received and retained at the handle portion as will be discussed later in further detail.

- 5 Appreciably, the handle portion is not considered a part of the box and the securing parts are not considered to be part(s) of the sleeve.

The present disclosure contemplates that by manner of such interlocking, a sturdy structure (i.e., structure of the packaging assembly) can be possible. Moreover, with
10 the foldable covering, use of auto lock bottom type boxes (i.e., which include gaps at the bases) can, if desired, be avoided. In this regard, fluid leak (e.g., fluid associated with food spills) can be avoided.

Furthermore, with the foldable covering, flexibility concerning usage of the box can
15 be afforded.

In one example, the box can be used without requiring a handle portion and this can be helpful in a situation where another box is required to be stacked atop the box (e.g., for compact storage).

20 In another example, visual presentations such as graphics (e.g., advertisements, brand representation and/or labels) can be printed on the foldable covering instead of the box. It is contemplated that by doing so, it is not necessary to replace boxes when the graphics become outdated (e.g., change in advertisements/labels) since
25 only the foldable covering needs to be updated/replaced. This can be helpful where inventory is concerned since the box can then be reused, if desired.

The foregoing will be discussed in further detail with reference to Fig. 1 to Fig. 5 hereinafter.

30 Referring to Fig. 1a and Fig. 1b, a packaging assembly 100 is shown in accordance with an embodiment of the disclosure. Fig. 1a shows the packaging assembly 100 in

a disassembled form 100a and Fig. 1b shows the packaging assembly 100 in an assembled form 100b, in accordance with an embodiment of the disclosure.

As shown, the packaging assembly 100 can include a foldable covering 102 and a box 104. The foldable covering 102 can be configured to be coupled, in a removable manner, to the box 104. Specifically, the foldable covering 102 can be removably coupled to the box 104. In this regard, the foldable covering 102 can be considered to be suitable for use with the box 104.

Appreciably, the foldable covering 102 and the box 104 can be distinct elements of the packaging assembly 100.

More appreciably, the packaging assembly 100 can be disassembled (i.e., from the assembled form 100b to the disassembled form 100a) in that the foldable covering 102 can be decoupled from the box 104. If desired, the foldable covering 102 can, further, be separated from the box 104 (i.e., the foldable covering 102 can be separated, if desired, from the box 104 after being decoupled from the box 104).

The foldable covering 102 can be shaped and dimensioned so as to be capable of being in either a two-dimensional (2D) configuration 102a (i.e., as shown in Fig. 1a) or a three-dimensional (3D) configuration 102b (i.e., as shown in Fig. 1b).

The 2D configuration 102a can be associated with the foldable covering 102 being decoupled from the box 104 as shown in Fig. 1a, according to an embodiment of the disclosure. When the foldable covering 102 is in the 2D configuration 102a, the packaging assembly 100 can be considered to be in the disassembled form 100a, according to an embodiment of the disclosure. Moreover, in the 2D configuration 102a, the foldable covering 102 can be in an unfolded configuration such that when the foldable covering 102 is, for example, laid against a substantially flat surface (e.g., a tabletop), the foldable covering 102 can be in a substantially planar form. Specifically, the foldable covering 102 can be unfolded in a manner such that the foldable covering 102 can be in a substantially planar form, in accordance with an embodiment of the disclosure.

The 3D configuration 102b can be associated with the foldable covering 102 being coupled to the box 104 as shown in Fig. 1b, according to an embodiment of the disclosure. When the foldable covering is in the 3D configuration 102b such that the foldable covering 102 is coupled to the box 104, the packaging assembly 100 can be considered to be in the assembled form 100b, according to an embodiment of the disclosure. Moreover, in the 3D configuration 102b, the foldable covering 102 can be in a folded configuration such that the foldable covering 102 is wrapped around at least a portion of the box 104. Specifically, the foldable covering 102 can be folded around at least a portion of the box 104 in a form-fitting manner, in accordance with an embodiment of the disclosure. More specifically, in one embodiment, the foldable covering 102, when folded, can be coupled to the box 104 in a form-fitting manner in that the foldable covering 102 can be in a shape which substantially conforms to that of the box 104. For example, where the box 104 is cuboidal in shape, the foldable covering 102, when folded and wrapped around at least a portion of the box 104, can be in a substantially cuboidal form, in accordance with an embodiment of the disclosure.

In one embodiment, the foldable covering 102 can be wrapped around the box 104 in a manner such that one or more parts of the box 104 can be exposed to view (i.e., visually perceivable). In this regard, the foldable covering 102 can be considered to be capable of being wrapped around a portion of the box 104 (i.e., the part(s) of the box 104 exposed to view can be considered not to be covered/wrapped around by the foldable covering 102).

In another embodiment, the foldable covering 102 can be wrapped around the box 104 in a manner such that the box 104 can be substantially covered by the foldable covering 102. For example, the foldable covering 102 can be wrapped around the box 104 in a manner such that the box 104 can be substantially concealed (i.e., visually hidden/blocked from view) by the foldable covering 102.

Generally, in the assembled form 100b as shown in Fig. 1b, the foldable covering 102 can be removably coupled to the box 104 by manner of one or more catch

portions 212 (i.e., as will be discussed later in further detail with reference to Fig. 2) defined at/carried by the foldable covering 102 interlocking with one or more securing parts (e.g., in the form of holding part(s) 300 as will be discussed later in further detail with reference to Fig. 3) defined at/carried by the box 104. Interlocking can, for example, be by manner of a securing part being received and retained by a catch portion.

The foldable covering 102 will be discussed in further detail with reference to Fig. 2a and Fig. 2b, according to an embodiment of the disclosure. The box 104 will be discussed in further detail with reference to Fig. 3a and Fig. 3b, according to an embodiment of the disclosure.

Fig. 2a shows the foldable covering 102 in 2D configuration 102a, according to an embodiment of the disclosure. Fig. 2b shows the foldable covering 102 in 3D configuration 102b, according to an embodiment of the disclosure.

Referring to Fig. 2a, the foldable covering 102, when in 2D configuration 102a, can be unfolded and laid flat against a substantially flat surface 200 (e.g., a tabletop). In this regard, the foldable covering 102 can be considered to be capable of being unfolded in a manner so as to be in a substantially planar form when in the 2D configuration 102a.

As shown, the foldable covering 102 can, in general, include a handle portion 202 and a body portion 204. The handle portion 202 can be coupled to the body portion 204.

The handle portion 202 can include a plurality of handle sub portions. In one embodiment, the handle portion 108 can include a first handle sub portion 202a and a second handle sub portion 202b.

The body portion 204 can include one or both of a plurality of body sub portions 206 and a plurality of adjoining portions 208. In one embodiment, the body portion 204 can include a first body sub portion 206a, a second body sub portion 206b, a third

body sub portion 206c, a fourth body sub portion 206d and a fifth body sub portion 206e. Moreover, in one embodiment, the body portion 204 can include a first adjoining portion 208a, a second adjoining portion 208b, a third adjoining portion 208c, a fourth adjoining portion 208d, a fifth adjoining portion 208e and a sixth adjoining portion 208f.

In general, a handle sub portion (i.e., the first handle sub portion 202a and/or the second handle sub portion 202b) can be coupled to a body sub portion (i.e., the first body sub portion 206a, the second body sub portion 206b, the third body sub portion 206c, the fourth body sub portion 206d and/or the fifth body sub portion 206e) via/at an adjoining portion (i.e., the first adjoining portion 208a, the second adjoining portion 208b, the third adjoining portion 208c, the fourth adjoining portion 208d, the fifth adjoining portion 208e and/or the sixth adjoining portion 208f).

Specifically, in one embodiment, the first handle sub portion 202a can be coupled to the first body sub portion 206a, the first body sub portion 206a can be coupled to the second body sub portion 206b, the second body sub portion 206b can be coupled to the third body sub portion 206c, the third body sub portion 206c can be coupled to the fourth body sub portion 206d, the fourth body sub portion 206d can be coupled to the fifth body sub portion 206e and the fifth body sub portion 206e can be coupled to the second handle sub portion 202b.

More specifically, in one embodiment, the first handle sub portion 202a can be coupled to the first body sub portion 206a via the first adjoining portion 208a, the first body sub portion 206a can be coupled to the second body sub portion 206b via the second adjoining portion 208b, the second body sub portion 206b can be coupled to the third body sub portion 206c via the third adjoining portion 208c, the third body sub portion 206c can be coupled to the fourth body sub portion 206d via the fourth adjoining portion 208d, the fourth body sub portion 206d can be coupled to the fifth body sub portion 206e via the fifth adjoining portion 208e and the fifth body sub portion 206e can be coupled to the second handle sub portion 202b via the sixth adjoining portion 208f.

In this regard, the first handle sub portion 202a can be foldable with respect to the first body sub portion 206a (i.e., about the first adjoining portion 208a), the first body sub portion 206a can be foldable with respect to the second body sub portion 206b (i.e., about the second adjoining portion 208b), the second body sub portion 206b can be foldable to the third body sub portion 206c (i.e., about the third adjoining portion 208c), the third body sub portion 206c can be foldable with respect to the fourth body sub portion 206d (i.e., about the fourth adjoining portion 208d), the fourth body sub portion 206d can be foldable with respect to the fifth body sub portion 206e (i.e., about the fifth adjoining portion 208e) and the fifth body sub portion 206e can be foldable with respect to the second handle sub portion 202b (i.e., about the sixth adjoining portion 208f) such that the foldable covering 102 can be folded, from the 2D configuration 102a, so as to be in the 3D configuration 102b.

Therefore, it is appreciable that that the first handle sub portion 202a can be considered to be coupled (e.g., via an adjoining portion such as the first adjoining portion 208a) to one end (e.g., the first body sub portion 206a) of the body portion 204 and the second handle sub portion 202b can be considered to be coupled (e.g., via an adjoining portion such as the sixth adjoining portion 208f) to another end (e.g., the fifth body sub portion 206e) of the body portion 204.

Specifically, the handle portion 202 can be foldably coupled to the body portion 204 in a manner such that the first handle sub portion 202a can be foldably coupled to one end of the body portion 204 and the second handle sub portion can be foldably coupled to another end of the body portion 204, in accordance with an embodiment of the disclosure. Moreover, when in the 2D configuration 102a, the foldable covering 102 can be capable of being laid against the flat surface 200 such that the first handle sub portion 202a is not in contact with the second handle sub portion 202b (i.e., the first handle sub portion 202a and the second handle sub portion 202b are not in contact).

It is further appreciable that the handle portion 202 can be coupled to the body portion 204 in a foldable manner and the body portion 204 can include body sub portions which can be coupled to another in a foldable manner such that the foldable

covering 102 can be either unfolded (i.e., from the 3D configuration 102b) so as to be in the 2D configuration 102a in one embodiment of the disclosure or folded (i.e., from the 2D configuration 102a) so as to be in the 3D configuration 102b in one embodiment of the disclosure.

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In this regard, folding/unfolding of the foldable covering 102 between the 2D configuration 102a and the 3D configuration 102b can be considered to be facilitated by the adjoining portion(s) 208.

10 Referring to Fig. 2b, the foldable covering 102 is shown to be in 3D configuration 102b, according to an embodiment of the disclosure.

As shown, when in the 3D configuration 102b (i.e., in a folded configuration), the foldable covering 102 can be wrapped around at least a portion of the box 104 in, for example, a form-fitting manner such that the foldable covering 102 can be in a shape which substantially conforms to that of the box 104. In this regard, when in the 3D configuration 102b, and the foldable covering 102 can be capable of being coupled to the box 104 in a form-fitting manner in that foldable covering 102 can be in a shape which conforms to that of the box 104. Moreover, the foldable covering 102 can be wrapped around at least a portion of the box 104 in a manner such that at least a portion of the box 104 can be exposed to view.

When in the 3D configuration 102b, the first handle sub portion 202a can be brought into contact with the second handle sub portion 202b. Specifically, the first handle sub portion 202a and the second handle sub portion 202b can come into contact with each other. More specifically, the first handle sub portion 202a can come into contact with the second handle sub portion 202b when the foldable covering 102 is in the 3D configuration 102b. In contrast, when in 2D configuration 102a, it is appreciable that the first handle sub portion 202a and the second handle sub portion 202b are not in contact with each other.

Moreover, as shown, the handle portion 202 can be shaped and dimensioned such that a handle opening portion 210 can be defined. The handle opening portion 210

can be shaped and dimensioned to allow access of fingers of a user through and subsequent gripping such that the handle portion 202 can be gripped by a user for the purpose of, for example, carrying the packaging assembly 100.

5 Additionally, the handle portion 202 can be shaped and dimensioned such that one or more catch portions 212 can be defined/formed according to an embodiment of the disclosure. In one embodiment, one catch portion 212 can be defined/formed at/adjacent one end the handle portion 202 and another catch portion 212 can be defined/formed at/adjacent another end of the handle portion 202.

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The catch portion(s) 212 (e.g., in notched form) can be shaped and dimensioned in a manner so as to interlock (i.e., by manner of receiving and retaining) with securing part(s) (e.g., in the form of holding part(s) 300 as will be discussed in further detail with reference to Fig. 3) carried by the box 104. Specifically, the box 104 can be
15 shaped and dimensioned in a manner so as to carry one or more securing parts (e.g., in the form of one or more holding parts 300) which will be discussed in further detail with reference to Fig. 3 hereinafter.

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Fig. 3a and Fig. 3b show the box 104 in further detail, according to an embodiment of the disclosure.

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Additionally, as shown in Fig. 3a and Fig. 3b, the box 104 can be shaped and dimensioned in a manner so as to carry one or more holding parts 300. A holding part 300 can, for example, be in the form of a flap/an ear having one or more slits
capable of mating with the catch portion(s) 212 (e.g., in notched form).

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A holding part 300 can, for example, be received and retained by a catch portion 212 according to an embodiment of the disclosure. In this regard, a holding part 300 can be considered to be capable of interlocking with a catch portion 212.

Generally, the holding part(s) 300 can be considered to be defined at/carried by the box 104.

Moreover, the box 104 can include a body part 302. In general, the box 104 can be suitable for carrying at least one food item. More specifically, at least one food item can be carried by the box 104 at the body part 302.

- 5 The body part 302 can include a base section 304 and an access section 306.

The base section 304 can, for example, correspond to a gapless type base, according to an embodiment of the disclosure. In this regard, the box 104 can, for example, be a non-auto lock bottom type box, according to an embodiment of the disclosure. It is contemplated that a gapless type base can be useful for retarding fluid leak.

The access section 306 can, for example, correspond to an opening through which the body part 302 can be accessed. Specifically, the access section 306 can, for example, correspond to an opening through which at least one food item can be placed into the box 104.

The body part 302 can further include a plurality of face sections 308 extending from the base section 304. In this regard, the base section 304 and the access section 306 can be considered to be at opposite ends of the face sections 308.

Moreover, the face sections 308 can include a first face 308a, a second face 308b, a third face 308c and a fourth face 308d, according to an embodiment of the disclosure.

25 The first face 308a and the third face 308c can be opposing faces whereas the second face 308b and the fourth face 308d can be opposing faces. The first and third faces 308a/308c can be considered to be a first pair of opposing faces. The second and fourth faces 308b/308d can be considered to be a second pair of opposing faces.

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In this regard, the body part 302 can, for example, include a first pair of opposing faces and a second pair of opposing faces. Additionally, the first and second pair of

opposing faces can be considered to be defined between the base section 304 and the access section 306.

Moreover, according to an embodiment of the disclosure, the box 104 can, as an option, include one or both of:

- 1) a cover part 310; and
- 2) one or more holder parts 312.

In one embodiment, as shown in Fig. 3a, the cover part 310 can be coupled to the body part 302 in a manner so as to impede access into the body part 302. For example, the cover part 310 can be coupled to the body part 302 in a removable manner so as to either impede access into the body part 302 by blocking the access section 306 or allow access into the body part 302 by not blocking the access section 306.

Specifically, the cover part 310 can, for example, be coupled to the body part 302 in a manner so as to block the access section 306 (i.e., access into the body part 302 is impeded by the cover part 310). Furthermore, when the cover part 310 is removed from the body part 302, as shown in Fig. 3b in accordance with an embodiment of the disclosure, it can be appreciated that the access section 306 would not be blocked and access into the body part 302 would be possible via the access section 306. Moreover, it is preferable that when the cover part 310 is removed from the body part 302, the cover part 310 will no longer be in contact with the body part 302.

Earlier mentioned, the box 104 can be shaped and dimensioned in a manner so as to carry/define one or more holding parts 300.

In one example, the body part 302 can be shaped and dimensioned in a manner so that one or more holding parts 300 can be defined at each face of at least one pair of opposing faces (i.e., the first pair of opposing faces and/or the second pair of opposing faces). In one specific example, in relation to the first pair of opposing faces, a holding part 300 can be carried by the first face 308a and another holding

part 300 can be carried by the third face 308c. In another specific example, in relation to the second pair of opposing faces, a holding part 300 can be carried by the second face 308b and another holding part 300 can be carried by the fourth face 308d. In yet another specific example, in relation to both the first pair and the second pair of opposing faces, a holding part 300 can be carried by each of the first to fourth faces 308a/308b/308c/308d.

In another example, the cover part 310 can be shaped and dimensioned in a manner so that one or more holding parts 300 can be defined thereon.

Generally, when the foldable covering 102 is coupled to the box 104 to form the packaging assembly 100 (e.g., when the foldable covering 102 is in the 3D configuration 102b and is at least partially wrapped around the box 104 in, for example, a form fitting manner), the foldable covering 102 can be coupled to the box 104 by virtue of the holding portion(s) 300 mating with the catch portion(s) 212 (i.e., the holding portion(s) 300 being received and retained by the catch portion(s) 212). Moreover, it is appreciable that the foldable covering 102 can be maintained in the 3D configuration 102b by virtue of the holding portion(s) 300 being mated with the catch portion(s) 212. The holding portion(s) 300 can, for example, be considered to interlock with the catch portion(s) 212 when the holding portion(s) 300 mate with the catch portion(s) 212.

Therefore, in regard to the packaging assembly 100, the foldable covering 102 and the box 104 can be held together by virtue of the holding portion(s) 300 mating with the catch portion(s) 212. Moreover, the foldable covering 102 can be maintained in the 3D configuration 102b by virtue of the holding portion(s) 300 mating with the catch portion(s) 212.

Earlier mentioned, the box 104 can, as an option, further include one or more holder parts 312.

The holder part(s) 312 can be defined at/carried by the body part 302 according to an embodiment of the disclosure.

In one example, the body part 302 can be shaped and dimensioned in a manner so that one or more holder parts 312 can be defined at each face of at least one pair of opposing faces (i.e., the first pair of opposing faces and/or the second pair of opposing faces). In one specific example, in relation to the first pair of opposing faces, a holder part 312 can be carried by the first face 308a and another holder part 312 can be carried by the third face 308c. In another specific example, in relation to the second pair of opposing faces, a holder part 312 can be carried by the second face 308b and another holder part 312 can be carried by the fourth face 308d. In yet another specific example, in relation to both the first pair and the second pair of opposing faces, a holder part 312 can be carried by each of the first to fourth faces 308a/308b/308c/308d.

In use, when the packaging assembly 100 is in disassembled form 100a, the holder parts 312 (e.g., carried by the first face 308a and the third face 308c) can be shaped and dimensioned in a manner so as to be capable of being held by a user for facilitating a user action (e.g., pulling type user action/pushing type user action) so that the box 104 can be in either a carrier configuration or a tray configuration based on user action as will be discussed in further detail with reference to Fig. 4 hereinafter.

Fig. 4a shows the box 104 in a carrier configuration 400a, according to an embodiment of the disclosure. Fig. 4b shows the box 104 in a tray configuration 400b, according to an embodiment of the disclosure.

Referring to Fig. 4a, the box 104 can be in carrier configuration 400a, according to an embodiment of the disclosure. Specifically, the box 104 can be in carrier configuration 400a based on, for example, user action (e.g., by manner of pushing type user action) so that the box 104 can be in a form suitable for being coupled to the foldable covering 102 to form the packaging assembly 100.

Earlier mentioned, the box 104 can include an access section 306. The access section 306 can correspond to an opening for placing at least one food item into the

body part 302 when the box 104 is opened. The box 104 is generally considered to be opened when the access section 306 is unblocked (e.g., when the cover part 310 is separated from the box 104 and/or when the foldable covering 102 is separated from the box 104 or is in the 2D configuration 102a).

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In one exemplary scenario, the box 104 can initially be in the tray configuration 400b when packing one or more food items into the box 104.

10 Appreciably, during packing, the box 104 can initially be in the tray configuration 400b so as to facilitate ease of packing. Specifically, in the tray configuration 400b, the box 104 can be associated with an access section 306 which is larger as compared to that when the box 104 is in the carrier configuration 400a. More specifically, in the tray configuration 400b, the access section 306 can be considered larger (e.g., a larger opening) as compared to the access section 306 when in the
15 carrier configuration 400a. Given a larger access section 306 (i.e., when in the tray configuration 400b), one or more food items can be packed into the box 104 more conveniently. Therefore, when in the carrier configuration 400a, the box 104 can be associated with an access section 306 which is smaller in size relative to the size of the access section 306 when the box 104 is in the tray configuration 400b. After
20 packing has been completed, the box 104 can, for example, be changed from the tray configuration 400b to the carrier configuration 400a by manner of user action (e.g., pushing type user action) applied via the holder part(s) 312.

Further appreciably, in one example, after packing has been completed and the box
25 104 is in the carrier configuration 400a, the box 104 (i.e., in the carrier configuration 400a) can be coupled with the foldable covering 102 in a manner so as to form the packaging assembly 100 as discussed earlier. It is contemplated that the packaging assembly 100 can facilitate convenient transportation (e.g., by a customer/a delivery person) of at least one food item carried therein.

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Referring to Fig. 4b, the box 104 can be in tray configuration 400b, according to an embodiment of the disclosure. Specifically, the box 104 can be in tray configuration 400b based on, for example, user action (e.g., by manner of pulling type user action)

when the packaging assembly 100 is in the disassembled form 100a. For example, after the foldable covering 102 has been removed from the box 104, the box 104 can be changed from the carrier configuration 400a to the tray configuration 400b by manner of user action (e.g., pulling type user action) applied via the holder part(s)
5 312.

As shown, the box 104 can include one or more extension portions 404.

10 Generally, the box 104 can be shaped and dimensioned to form one or more extension portions 404. Specifically, an extension portion 404 can be defined at a corner of the box 104. More specifically, an extension portion 404 can be defined at each corner of the box 104.

15 In one embodiment, the box 104 can be shaped and dimensioned in a manner so as to include four corners. An extension portion 404 can be defined at each of the four corners. In this regard, the extension portion(s) 404 can, for example, include a first extension portion 404a, a second extension portion 404b, a third extension portion 404c and a fourth extension portion 404d.

20 An extension portion 404 can, for example, correspond to a foldable corner.

In this regard, the box 104 can, in one embodiment, be considered to be shaped and dimensioned in a manner such that:

- 25 • the first extension portion 404a corresponds to a foldable corner adjoining the first face 308a and the second face 308b;
- the second extension portion 404b corresponds to a foldable corner adjoining the second face 308b and the third face 308c;
- the third extension portion 404c corresponds to a foldable corner adjoining the third face 308c and the fourth face 308d; and
- 30 • the fourth extension portion 404d corresponds to a foldable corner adjoining the fourth face 308d and the first face 308a.

An extension portion(s) 404 can, for example, be either spread or folded-in so that the first to fourth faces 308a/308b/308c/308d can be, respectively, one of drawn away from each other and brought toward each other.

5 In one embodiment, the first to fourth faces 308a/308b/308c/308d can be drawn away from each other by manner of user action (e.g., pulling type user action) applied via the holder part(s) 312. Each extension portion 404 can be associated with an extent of spread (i.e., maximum allowable spread) and the first to fourth faces 308a/308b/308c/308d can be drawn away from each other to the extent of
10 spread allowable by the extension portion(s) 404. When the first to fourth faces 308a/308b/308c/308d are drawn away from each other, the box 104 can be in the tray configuration 400b.

In one embodiment, the first to fourth faces 308a/308b/308c/308d can be brought
15 toward each other by manner of user action (e.g., pushing type user action) applied via the holder part(s) 312. Each extension portion 404 can be associated with an extent of fold-in (i.e., maximum allowable fold-in) and the first to fourth faces 308a/308b/308c/308d can be brought toward each other to the extent of fold-in allowable by the extension portion(s) 404. When the first to fourth faces
20 308a/308b/308c/308d are brought toward each other, the box 104 can be in the carrier configuration 400a.

In this regard, the extension portion(s) 404 can facilitate change between the carrier configuration 400a and the tray configuration 400b.

25 In general, when the foldable covering 102 is in the 2D configuration 102a (i.e., when the packaging assembly 100 is considered to be in the disassembled form 100a), user action is capable of being applied via the holder part(s) 312 in a manner such that the box 104 is capable of being changed between the carrier configuration 400a
30 and the tray configuration 400b.

Earlier mentioned, the present disclosure contemplates that, based on an exemplary scenario, the box 104 can be in the tray configuration 400b for the purpose of facilitating ease of packing.

- 5 The present disclosure further contemplates that in another exemplary scenario, after delivery, the packaging assembly 100 can be disassembled (e.g., the foldable covering 102 can be removed and the box 104 can be separated from the foldable covering 102) for consumer access to the food item(s) packed in the box 104. Appreciably, the box 104 can be changed from the carrier configuration 400a to the
- 10 tray configuration 400b for facilitating consumer convenience when accessing the food item(s)/facilitating efficiency in serving the delivered food item(s). The box 104 when in the tray configuration 400b, can be shaped and dimensioned to be akin a serving tray which allows the food item(s) to be served without having to remove the packed food item(s) from the box 104 (e.g., without needing to transfer the packed
- 15 food item(s) from the box 104 to a serving tray). Moreover, when in the tray configuration 400b, the food item(s) can be served in an easily accessible manner. In this manner, efficiency in serving/consumer convenience when accessing the food item(s) can be facilitated.
- 20 Therefore, it is appreciable that the box 104 can be associated with a variable access section 306. The access section 306 can be varied in that size of the access section 306 can be varied (e.g., size of the opening).

- Specifically, the size of the access section 306 can be considered to be the largest
- 25 when the extension portions 404 are fully spread (i.e., maximum allowable spread) relative to the size of the access section 306 being considered to be the smallest when the extension portions 404 are fully folded in (i.e., maximum allowable fold-in). In this regard, the access section 306 can be varied (e.g., from smallest to largest in size or from largest to smallest in size) as the box 104 transits in change between
- 30 the carrier configuration 400a and the tray configuration 400b.

In this regard, the box 104 can be shaped and dimensioned in a manner so as to define an access section 306 which can be variable in size based on transition in

change of the box 104 between the carrier configuration 400a and the tray configuration 400b. Moreover, the size of the access section 306 is larger when the box 104 is in the tray configuration 400b relative/as compared to the size of the access section 306 when the box 104 is in the carrier configuration 400a.

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In view of the foregoing discussion, it can be appreciated that the present disclosure contemplates a packaging assembly 100 which can include a foldable covering 102 which can be shaped and dimensioned in a manner so as to be capable of being in one of a two-dimensional (2D) configuration 102a and a three-dimensional (3D) configuration 102b.

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The packaging assembly 100 can further include a box 104 capable of being removably coupled to the foldable covering 102. Moreover, the box 104 can be shaped and dimensioned so as to be capable of being in one of a carrier configuration 400a and a tray configuration 400b.

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Additionally, the box 104 can be removably coupled to the foldable covering 102 when the foldable covering 102 is in 3D configuration 102b. Furthermore, the box 104 can be capable of being changed between the carrier configuration 400a and the tray configuration 400b when the foldable covering 102 is in 2D configuration 102a.

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Moreover, the box 104 can be shaped and dimensioned in a manner such that a variable access section 306 can be defined. The variable access section 306 can correspond to an opening which is variable in size in accordance with transition in change of the box 104 between the carrier configuration 400a and the tray configuration 400b.

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Referring to Fig. 5, there is shown a conveying method 500 in association with the packaging assembly 100, in accordance with an embodiment of the disclosure.

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The conveying method 500 can, for example, be in relation to one or both of the aforementioned exemplary scenario concerning packing of one or more food items and exemplary scenario concerning after delivery.

- 5 Generally, the conveying method 500 can, for example, relate to packing one or more food items to be conveyed (i.e., transported) from a food establishment (e.g., a restaurant) and/or conveying (i.e., delivering) one or more food items in a manner such that the food item(s) can be served/accessed, upon/after delivery, in a convenient/efficient manner.

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The conveying method 500 can include a first providing step 502 and a second providing step 504. The conveying method 500 can further include one or both of an assembly step 506 and a disassembly step 508.

- 15 In regard to the first providing step 502, the foldable covering 102 can be provided, according to an embodiment of the disclosure.

In regard to the second providing step 504, the box 104 can be provided, according to an embodiment of the disclosure.

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In regard to the assembly step 506, the foldable covering 102 and the box 104 can be removably coupled to form the packaging assembly 100, according to an embodiment of the disclosure.

- 25 In regard to the disassembly step 508, the packaging assembly 100 can be disassembled, according to an embodiment of the disclosure. For example, the packaging assembly 100 can be disassembled in a manner such that the foldable covering 102 and the box 104 are separated.

- 30 It should be further appreciated by the person skilled in the art that variations and combinations of features described above, not being alternatives or substitutes, may be combined to form yet further embodiments.

In one example, it was earlier mentioned that the box 104 can be shaped and dimensioned in a manner so as to carry one or more holding parts 300, and the catch portion(s) 212 (e.g., in notched form) can be shaped and dimensioned in a manner so as to receive and retain the holding part(s) 300.

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It is contemplated that the holding part(s) 300 can possibly be replaced by the holder part(s) 312. Specifically, the holder part(s) 312 can be shaped and dimensioned in a manner so as to be capable of being received and retained by the catch portion(s) 212. In this regard, it is contemplated the holder part(s) 312 can have the dual function/purpose of:

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- Holding the foldable covering 102 and the box 104 together (i.e., by virtue of the holding part(s) 312 mating with the catch portion(s) 212). Appreciably, the foldable covering 102 can be maintained in the 3D configuration 102b by virtue of the holding part(s) 312 mating with the catch portion(s) 212.
- Being held by a user for facilitating a user action (e.g., pulling type user action/pushing type user action) so that the box 104 can be in either a carrier configuration 400a or a tray configuration 400b based on user action.

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Accordingly, the present disclosure contemplates that the holding part(s) 300 can, as an option, be omitted. Specifically, the box 104 can, in one embodiment of the disclosure, omit the holding part(s) 300.

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Therefore in the context of the foldable covering 102 and the box 104 being held together (i.e., by virtue of the holding part(s) 300 and/or the holder part(s) 312 mating with the catch portion(s) 212), the at least one holding part and/or the at least one holder part 312 can generally be referred to as at least one securing part (i.e., the at least one holding part and/or the at least one holder part 312 can generally be considered to correspond to at least one securing part). Specifically, in the context of the holding part(s) 300 mating with the catch portion(s) 212, the holding part(s) 300 can be referred to as securing part(s). Similarly, in the context of the holder

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part(s) 312 mating with the catch portion(s) 212, the holder part(s) 312 can be referred to as securing part(s).

Therefore, generally, when the foldable covering 102 is in the 3D configuration 102b (i.e., the first handle sub portion 202a has been brought into contact with the second handle sub portion 202b), the first and second handle sub portions 202a/202b can be capable of being held together by manner of the securing part(s) (i.e., the holding part(s) 300 and/or the holder part(s) 312) being matingly received and retained by the catch portion(s) 212.

In another example, it was earlier mentioned that the cover part 310 can, for example, be coupled to the body part 302 in a manner so as to block the access section 306 (i.e., access into the body part 302 is impeded by the cover part 310). The present disclosure contemplates that, in another embodiment, the cover part 310 can be omitted and the foldable covering 102, when coupled to the box 104 (i.e., when folded and wrapped around at least a portion of the box 104), can function to block the access section 306.

In yet another example, in one embodiment, as earlier mentioned, the cover part 310 can be shaped and dimensioned in a manner so that one or more holding parts 300 can be defined thereon. It is appreciable that, in another embodiment, the holding part(s) 300 can be carried by the body part 302. In this regard, the body part 302 can be shaped and dimensioned in a manner so that one or more holding parts 300 can be defined thereat.

In the foregoing manner, various embodiments of the disclosure are described for addressing at least one of the foregoing disadvantages. Such embodiments are intended to be encompassed by the following claims, and are not to be limited to specific forms or arrangements of parts so described and it will be apparent to one skilled in the art in view of this disclosure that numerous changes and/or modification can be made, which are also intended to be encompassed by the following claims.

Claim(s)

1. A foldable covering suitable for use with a box, the foldable covering capable
5 of being removably coupled to the box, the foldable covering comprising:

a handle portion comprising a first handle sub portion and a second
handle sub portion;

a body portion, the handle portion being foldably coupled to the body
portion in a manner such that the first handle sub portion is foldably coupled
10 to one end of the body portion and the second handle sub portion is foldably
coupled to another end of the body portion,

wherein the foldable covering is shaped and dimensioned in a manner
so as to be capable of being in one of a two-dimensional (2D) configuration
and a three-dimensional (3D) configuration,

15 wherein when in the 2D configuration, the foldable covering is capable
of being laid against a flat surface such that the first handle sub portion and
the second handle sub portion are not in contact, and

wherein when in the 3D configuration, the first handle sub portion is
brought into contact with the second handle sub portion and the foldable
20 covering is capable of being coupled to the box in a form-fitting manner in that
the foldable covering is in a shape which conforms to that of the box.

2. The foldable covering as in claim 1,

the handle portion further comprising at least one catch portion, and

25 the box comprising at least one securing part,

wherein when the foldable covering is in 3D configuration, the first and
second handle sub portions are capable of being held together by manner of
the securing part matingly received and retained by the catch portion.

30 3. The foldable covering as in claim 2,

wherein the box comprises at least one of:

at least one holder portion corresponding to the at least one
securing part, and

at least one holder part corresponding to the at least one securing part.

4. The foldable covering as in claim 1,

wherein the box is capable of being in one of a carrier configuration and a tray configuration,

wherein the box comprises a plurality of holder parts, and

wherein when the foldable covering is in the 2D configuration, user action is capable of being applied via the holder parts in a manner such that the box is capable of being changed between the carrier configuration and the tray configuration.

5. The foldable covering as in claim 4,

wherein the box is shaped and dimensioned in a manner so as to define an access section, the access section being variable in size based on transition in change of the box between the carrier configuration and the tray configuration, and

wherein the size of the access section is larger when the box is in the tray configuration relative to the size of the access section when the box is in the carrier configuration.

6. A packaging assembly comprising:

a foldable covering being shaped and dimensioned in a manner so as to be capable of being in one of a two-dimensional (2D) configuration and a three-dimensional (3D) configuration; and

a box capable of being removably coupled to the foldable covering, the box being shaped and dimensioned so as to be capable of being in one of a carrier configuration and a tray configuration,

wherein the box is removably coupled to the foldable covering when the foldable covering is in 3D configuration, and

wherein the box is capable of being changed between the carrier configuration and the tray configuration when the foldable covering is in 2D configuration.

7. The packaging assembly as in claim 6, wherein the box is shaped and dimensioned in a manner such that a variable access section is defined, the variable access section corresponding to an opening which is variable in size in accordance with transition in change of the box between the carrier configuration and the tray configuration.