

Description

The present invention relates generally to a unique construction for a container package for holding a plurality of containers or the like together as a single unit.

Packaging a plurality of containers together as a single unit can be achieved in a wide variety of ways and methods commonly known to those individuals having ordinary skill in the relevant art. Such ways and methods include, for example, encompassing containers in cardboard boxes and trays to form a "case" or a "twelve pack," encircling the outer band margins of the containers with a flexible, resilient material to form a web-like container carrier (US-A-5 018 620), and further surrounding the containers with a flexible, resilient material that shrinks or stretches upon the application of heat or an appropriately directed force, respectively (FR-A-2 155 440). United States Patents, Nos. 3,874,502, 4,018,331, and 4,219,117, disclose the structure and functionality of the container carrier.

One of the more popular methods of packaging a plurality of containers is to surround the containers with a sheet of heat shrinkable polymeric film material which shrinks upon application of heat to conform to the exterior configuration defined by the plurality of containers, thereby captivating the same. A pattern of slits or perforations can be supplied to the sheet of polymeric film material either before or after the heat shrinking process so that sheet may be ruptured to release the containers. Similarly, stretch wrap film material may also be used in place of the heat shrink wrap.

Use of each of these various methods results in a differently formed, yet similarly functioning package. However, some of those packages are incapable of positively retaining the plurality of containers in a certain, predetermined configuration or array. This can cause problems, especially in a warehouse or a store, for example, wherein packages must be stacked in order to maximize use of limited space. If the packages allow the containers therein to move about, thereby disrupting the pre-determined array, a workman may encounter great difficulty in properly storing the package, while still maximizing use of the limited space.

According to this invention a container package comprises: a flexible resilient plastic sheet arraying device, a plurality of containers, and encompassing means; the arraying device releasably holding the containers together in a pre-determined array; the containers each having a bottom; the containers being inserted into holes through the arraying device so that the arraying device is located proximate to the bottoms; the arraying device holes having marginal edges of a circumference similar

to but less than a corresponding circumference of the containers for loosely retaining the containers therewithin, thereby permitting individual removal of a container without disrupting the array; and the encompassing means surrounding the containers and the arraying device for retaining the containers.

A package, constructed according to the teachings of the present invention, assists in solving the above problems, among others, resulting in greater convenience to the user. The package of the invention is functionally distinct from the container carriers disclosed in the above-referenced patents. While the container carriers are intended to releasably hold a plurality of containers together for transport, the package of the invention has an array which maintains the containers in a pre-determined configuration within the package.

The package of the invention provides a container package which can be used as a distributor package. Thus it provides a container package which permits removal of one container while maintaining the pre-determined arrangement of other containers retained by the device.

Preferably the arraying means relatively loosely retain containers therein, thereby facilitating their removal therefrom. Preferably the arraying means comprise a material having a relatively low resiliency.

The container package preferably has arraying means reactive to bending forces applied to the device for maintaining the containers in substantially the same plane during handling and has arraying means for positively defining an array to be formed by a plurality of containers.

A particular embodiment of a package in accordance with this invention will now be described with reference to the accompanying drawings, in which:-

Figure 1 is a perspective view of the container package;

Figure 2 is a partial top plan view of the package illustrated in Figure 1;

Figure 3 is a side elevational view of the package of Figure 1 with encompassing means removed from the external configuration thereof, illustrating in phantom removal of one of the containers; and

Figure 4 is a top plan view of arraying means for use with the package of Figure 1.

Referring initially to Figure 1, a container package 10, constructed according to the teachings of the present invention, for releasably retaining a plurality of containers 12 is perspectively illustrated.

While the container package 10 is shown in the Figures, and will be described in detail with respect to releasably retaining twenty four containers 12 in the form of substantially cylindrical cans, it is to be

fully understood that the scope of the present invention is not to be limited to employment with any specific number of any type of containers or other articles. The teachings of the invention can be utilized equally well with any number of variously constructed containers 12 or other articles. Moreover, although the container package 10 is shown and will be described with relation to a substantially rectangular array, it is to be understood that otherly configured arrays may also be accomplished by use of the invention.

The container package 10 generally comprises a plurality of containers 12, two arraying devices 14 and encompassing means 16. The container 12 may be substantially cylindrical in shape, having a top 18 and a bottom 20. The top 18 is joined to the bottom 20 by a substantially cylindrical body 22. The body 22 is hollow, thereby allowing the container 12 to hold material inside. Other container constructions can also be utilized, as indicated above.

Referring to Figure 4, the arraying means or device 14 is illustrated. The device 14 may be composed of a suitable material, such as a plastic like polyethylene, having a certain degree of elasticity and resiliency, as will be discussed herein. Preferably, the array 14 is composed of a polyethylene material substantially similar to that disclosed in the above-referenced '502 patent. The particular arraying device 14 of Figure 4 is constructed to form a rectangular array 23 of containers 12, however, as stated above, the arraying device 14 can be constructed to form arrays 23 having different shapes and sizes.

The arraying means or device 14 can be formed from a substantially flat, sheet-like blank, not shown, of suitable flexible plastics material. Accordingly, a plurality of arraying devices 14 can be formed continuously along a continuous web-type operation. Adjacent arraying devices 14 are joined along substantially linear, common latitudinal edges 24 along opposite sides thereof, which can be ruptured to free one arraying device 14 from the continuous web. Thus, there are at least two latitudinal edges 24 on opposite sides of each arraying device 14.

Once ruptured, the latitudinal edges 24 terminate at rounded corners 26 on opposite ends thereof. These rounded corners 26 facilitate flexing of the arraying device 14, as will be discussed more fully herein. Longitudinal edges 28 join the latitudinal edges 24 at the rounded corners 26. The arraying device 14 is thusly substantially rectangular in external shape.

A plurality of container accepting holes 30 are disposed in the arraying device 14 between the boundaries defined by the latitudinal and longitudinal edges 24 and 28. The holes 30 are of dimen-

sions sufficient to accept the body 22 of the container 12. The holes 30 are defined by a plurality of container encircling bands 32 which define the demarcation between adjacent holes 30 and which confront and engage the body 22 of the container 12.

The holes 30 are arranged in the arraying device 14 to form a certain, pre-determined array 23 of containers 12 when the same have been inserted therein. The containers 12 are thereby arranged in ranks 40 and rows 42 to form the array 23. The particular rectangular array 23 illustrated in the Figures is only one of many arrays 23 which can be formed by appropriately constructed arraying device 14.

Each of the container encircling bands 32 has a container engaging band margin 34 which actually confronts and engages the body 22 of the container 12. The band margin 34 is of a dimension slightly smaller than a corresponding dimension on the body 22 of the container 12. In this way, the elasticity of the material comprising the arraying device 14 allows the band margin 34 to expand in order to accept the body 22 of the container 12. However, due to the resiliency inherent in that material, the band margin 34 can constrict around the body 22 of the container 12 for releasably holding and retaining the container 12 within the hole 30.

It is to be noted that the thickness of the material comprising the arraying device 14 is somewhat less than that commonly found in the material comprising container carriers, such as those disclosed in the above-referenced patents. For example, the thickness of the arraying device 14 may be about 0.2 mm (0.008 inches), while the thickness of a container carrier is typically about 0.4 mm (0.016 inches). Because those container carriers are provided for sustaining the weight of the containers, the carrier material must have a relatively high strength in order to effectively retain the containers. On the other hand, the arraying device 14 primarily holds the containers 12 against relatively shifting within the pre-determined array 23 while the weight is primarily supported by the encompassing means 16 described below.

Additionally, because of the functional differences between the container carriers and the array 14, the array 14 is applied to the containers 12 in a slightly different fashion. Specifically, whereas the container carriers are applied to the containers by stretching the carriers approximately within the range of twenty five to thirty percent, the array 14 is only stretched approximately within the range of five to ten percent upon application to the containers 12. Because the array 14 is stretched to a lesser degree when applied to the containers 12, the array 14 holds the containers 12 to a propor-

tionally lesser degree as compared to the container carriers.

The arraying device 14, as will be discussed herein, is located proximate to the bottoms 20 of the containers 12. The material of the arraying device 14 has a resiliency sufficient to retain the containers 12 within the holes 30 and to maintain the desired, pre-determined array 23. The resiliency is also sufficient to react to bending forces applied to the container package 10 during handling for keeping the containers 12 all in substantially the same plane defined thereby.

The resiliency of the material is sufficiently weak, and/or the degree of interference between the containers 12 and the band margins 34 is sufficiently small to permit easy individual removal of a container 12 without disrupting the array 23 of remaining containers 12 formed by the arraying device 14. These properties of the container package 10 allow it to function effectively as a distributor package for a plurality of containers 12, which is usually opened, such as in a store, to allow selective removal of a subset of the plurality for purchase.

Once the body 22 of the container 12 is inserted into the hole 30, the band margin 34 constricts somewhat therearound, causing the container encircling bands 32 to flex and to conform to the external configuration of the body 22. The container 12 is inserted into the hole 30 so that the container encircling bands 32 will be located on the body 22 proximate to the bottom 20 once they have flexed properly.

Means to facilitate this flexing and conforming in the form of external scallops 36 and internal scallops 38 are disposed on the arraying device 14 in association with the holes 30. The scallops 36 and 38 represent portions removed from the container encircling bands 32 to encourage their flexing around the body 22 of the container 12.

The external scallops 36 are disposed along the longitudinal edges 28 of the arraying device 14. The external scallops 36 are substantially arcuate in shape, defining an arc which extends concavely from the longitudinal edges 28 towards the interior of the arraying device 14. The external scallops 36 are preferably located along the longitudinal edges 28 between adjacent rows 42 of holes 30 to facilitate flexing of the associated container encircling bands 32.

Additional flexibility is provided by notches 44 disposed on the arraying device 14. The notches 44 also represent portions removed from the arraying device 14, and are substantially triangular in shape. The notches 44 are located adjacent the latitudinal edges 24 of the arraying device 14 between adjacent ranks 40 of the holes 30. The notches 44 co-operate with the rounded corners 26

and the external scallops 36 to facilitate flexing of the container encircling bands 32, especially those associated with the holes 30 disposed at the corners of the arraying device 14.

The internal scallops 38 are disposed on the arraying device 14 between the boundaries defined by the latitudinal edges 24 and the longitudinal edges 28. The internal scallops 38 are located on the container encircling bands 32 between holes 30 in adjacent ranks 40 and rows 42. Specifically, the internal scallops 38 are located at the junctures between the container encircling bands 32 parallel to the latitudinal edges 24 and the container encircling bands 32 parallel to the longitudinal edges 28. The internal scallops 38 are preferably substantially cruciform in shape, and function substantially similarly to the rounded corners 26, the external scallops 36, and the notches 44 to facilitate flexing and conforming of the container encircling bands 32.

The encompassing means 16 can take on a plurality of forms well known in the art. Preferably, the encompassing means 16 comprises a thin sheet or film of low density linear polyethylene, a shrinkable wrapping material which is shrinkable upon application of heat (i.e. heat shrink wrap), or, alternatively, a stretchable wrapping material which is shrinkable upon application of an appropriately directed force (i.e. stretch wrap). The encompassing means 16 is applied to the entirety of the exterior of the containers 12 and the arraying device 14 in order to positively retain the containers 12 together in the arraying device 14.

The encompassing means 16 is appropriately shrunk or stretched so as to conform closely to the external configuration formed by the containers 12 and the arraying device 14, as illustrated in Figure 2. To facilitate use of the container package 10 as a carrier, the encompassing means 16 may be provided with handle means, such as in the form of a bullseye, and/or opening means, such as in the form of slits or perforations disposed thereon. The encompassing means 16 can be opened in a plurality of ways, including by the application of an appropriate tool, such as a knife.

With the structure of the container package 10 thusly disclosed, the construction and operation of the same will now be discussed. A particularly desired shape of an array 23 is chosen, and a correspondingly constructed arraying device 14 is selected. The arraying device 14 is applied to the cylindrical bodies 22 of the containers 12 by means well known in the relevant art. The holes 30 accept the containers 12.

The arraying device 14 is positioned on the cylindrical bodies 22 proximate to the bottoms 20 thereof. The rounded corners 26, the external and internal scallops 36 and 38, respectively, and the notches 44 facilitate the band margins 34 of the

container encircling bands 32 in flexing to confront and engage the cylindrical bodies 22 of the containers 12. Because the material comprising the arraying device 14 has a proper degree of resiliency, and because of the minimal interference between the device 14 and the containers 12, the arraying device 14 holds the containers 12 therein relatively loosely. The arraying device 14 has now formed the desired array 23 of the containers 12.

The encompassing means 16 is applied to the external configuration defined by the containers 12 and the arraying device 14. The encompassing means 16 is wrapped around the external configuration to cover substantially the entirety of the surface area of the external configuration. The encompassing means 16 is then shrunk or stretched by appropriate means to conform strictly to the external configuration, and to firmly hold the containers 12 together within the arraying device 14. The container package 10 is now completed. It is to be noted that a plurality of arraying devices 14 releasably holding containers 12 can be arranged side-by-side, as shown in Figure 1, with the encompassing means 16 being wrapped around the external configuration formed by the containers 12 and the plurality of arraying means 14 to construct composite arrays 23. Alternatively, the package 10 could comprise a single arraying device 14 and twelve case. To remove an individual container 12 from the container package 10, the encompassing means 16, or at least a portion thereof, must be removed, as shown in Figure 3. A suitable tool may be used to do this, however, slits or perforations may be provided on the encompassing means 16 to facilitate opening and removal thereof.

Once the encompassing means 16 has been removed sufficiently, an upwardly directed force 46, indicated by the substantially vertical arrow in Figure 3, is applied to the container 12 to free it from the hole 30 defined by the container encircling bands 32. This process is represented in phantom lines in Figure 3.

Because the arraying device 14 holds the containers 12 therein relatively loosely, the magnitude of the force 46 required to free the container 12 from the arraying device 14 is substantially less than a force required to free a container from the container carriers discussed above. Because the force 46 is of such a relatively low magnitude, the container 12 can be removed from the arraying device 14 without upsetting the array 23. This is particularly desirable in distributor packages.

Claims

1. A package (10) comprising: a flexible resilient plastic sheet arraying device (14), a plurality of containers (22), and encompassing means

(16); the arraying device (14) releasably holding the containers together in a predetermined array; the containers (22) each having a bottom (20); the containers (22) being inserted into holes (30) through the arraying device (14) characterised in that the arraying device (14) is located proximate to the bottoms (20); the arraying device holes (30) have marginal edges of a circumference similar to but less than a corresponding circumference of the containers (22) for loosely retaining the containers (22) therewithin, thereby permitting individual removal of a container without disrupting the array; and in that the encompassing means (16) surround the containers (22) and the arraying device (14) for retaining the containers (22).

2. A package according to claim 1, wherein the arraying device (14) includes bands (32) defining the holes (30) and further comprising external scallops (36) on the arraying device (14) between adjacent holes (30) for facilitating flexing of the bands (32) so that the holes (30) can accept the containers (22) and the bands (32) can engage the containers (22).
3. A package according to claim 2, wherein the external scallops (36) are substantially arcuate in shape.
4. A package according to claim 2 or 3, further comprising internal scallops (38) on the arraying device (14) for facilitating flexing of the device (14) so that the holes (30) can accept the containers (22).
5. A package according to claim 4, wherein the internal scallops (38) are substantially cruciform in shape.
6. A package according to any one of the preceding claims, further comprising rounded corners (26) on the arraying device (14) for facilitating flexing of the device (14) so that the holes (30) can accept the containers (22).
7. A package according to any one of the preceding claims, wherein the encompassing material (16) is a heat shrinkable wrap material or a stretch wrap material.
8. A package according to any one of the preceding claims, wherein the arraying device (14) comprises a sheet of flexible material having a thickness of the order of 0.2 mm (0.008 inches).



container encircling bands 32 in flexing to confront and engage the cylindrical bodies 22 of the containers 12. Because the material comprising the arraying device 14 has a proper degree of resiliency, and because of the minimal interference between the device 14 and the containers 12, the arraying device 14 holds the containers 12 therein relatively loosely. The arraying device 14 has now formed the desired array 23 of the containers 12.

The encompassing means 16 is applied to the external configuration defined by the containers 12 and the arraying device 14. The encompassing means 16 is wrapped around the external configuration to cover substantially the entirety of the surface area of the external configuration. The encompassing means 16 is then shrunk or stretched by appropriate means to conform strictly to the external configuration, and to firmly hold the containers 12 together within the arraying device 14. The container package 10 is now completed. It is to be noted that a plurality of arraying devices 14 releasably holding containers 12 can be arranged side-by-side, as shown in Figure 1, with the encompassing means 16 being wrapped around the external configuration formed by the containers 12 and the plurality of arraying means 14 to construct composite arrays 23. Alternatively, the package 10 could comprise a single arraying device 14 and twelve case. To remove an individual container 12 from the container package 10, the encompassing means 16, or at least a portion thereof, must be removed, as shown in Figure 3. A suitable tool may be used to do this, however, slits or perforations may be provided on the encompassing means 16 to facilitate opening and removal thereof.

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Claims

1. A package (10) comprising: a flexible resilient plastic sheet arraying device (14), a plurality of containers (22), and encompassing means

(16); the arraying device (14) releasably holding the containers together in a predetermined array; the containers (22) each having a bottom (20); the containers (22) being inserted into holes (30) through the arraying device (14) characterised in that the arraying device (14) is located proximate to the bottoms (20); the arraying device holes (30) have marginal edges of a circumference similar to but less than a corresponding circumference of the containers (22) for loosely retaining the containers (22) therewithin, thereby permitting individual removal of a container without disrupting the array; and in that the encompassing means (16) surround the containers (22) and the arraying device (14) for retaining the containers (22).

2. A package according to claim 1, wherein the arraying device (14) includes bands (32) defining the holes (30) and further comprising external scallops (36) on the arraying device (14) between adjacent holes (30) for facilitating flexing of the bands (32) so that the holes (30) can accept the containers (22) and the bands (32) can engage the containers (22).
3. A package according to claim 2, wherein the external scallops (36) are substantially arcuate in shape.
4. A package according to claim 2 or 3, further comprising internal scallops (38) on the arraying device (14) for facilitating flexing of the device (14) so that the holes (30) can accept the containers (22).
5. A package according to claim 4, wherein the internal scallops (38) are substantially cruciform in shape.
6. A package according to any one of the preceding claims, further comprising rounded corners (26) on the arraying device (14) for facilitating flexing of the device (14) so that the holes (30) can accept the containers (22).
7. A package according to any one of the preceding claims, wherein the encompassing material (16) is a heat shrinkable wrap material or a stretch wrap material.
8. A package according to any one of the preceding claims, wherein the arraying device (14) comprises a sheet of flexible material having a thickness of the order of 0.2 mm (0.008 inches).



9. A package according to any one of the preceding claims, wherein the arraying device (14) is stretched approximately within the range of five to ten percent to accept the containers (22).
10. A package according to any one of the preceding claims, wherein each container (22) includes an easy open feature formed in its top.

Patentansprüche

1. Packung (10), die eine flexible elastische Kunststofffolien-Anordnungsvorrichtung (14), eine Vielzahl von Behältern (22) und umgebende Mittel (16) enthält; wobei die Anordnungsvorrichtung (14) die Behälter lösbar in einer vorbestimmten Anordnung zusammenhält; wobei die Behälter (22) jeweils einen Boden (20) haben; wobei die Behälter (22) in Löcher (30) durch die Anordnungsvorrichtung (14) eingesetzt sind, dadurch gekennzeichnet, daß die Anordnungsvorrichtung (14) sich nahe den Böden (20) befindet; daß die Löcher (30) der Anordnungsvorrichtung Randkanten mit einem Umfang haben, der ähnlich wie aber geringer als ein entsprechender Umfang der Behälter (22) ist, um in ihnen die Behälter (22) locker zu halten und dadurch Einzelentnahme eines Behälters ohne Zerstören der Anordnung zu erlauben; und daß die umgebenden Mittel (16) die Behälter (22) und die Anordnungsvorrichtung (14) umschließen, um die Behälter (22) zu sichern.
2. Packung gemäß Anspruch 1, wobei die Anordnungsvorrichtung (14) Bänder (32) einschließt, die die Löcher (30) begrenzen, und sie weiterhin äußere Aussparungen (36) in der Anordnungsvorrichtung (14) zwischen benachbarten Löchern (30) enthält, um ein Biegen der Bänder (32) zu erleichtern, so daß die Löcher (30) die Behälter (22) aufnehmen können und die Bänder (32) die Behälter (22) fassen können.
3. Packung gemäß Anspruch 2, wobei die äußeren Aussparungen (36) im wesentlichen bogenförmig gestaltet sind.
4. Packung gemäß Anspruch 2 oder 3, die weiterhin innere Aussparungen (38) auf der Anordnungsvorrichtung (14) enthält, um ein Biegen der Vorrichtung (14) zu erleichtern, so daß die Löcher (30) die Behälter (22) aufnehmen können.

5. Packung gemäß Anspruch 4, wobei die inneren Aussparungen (38) im wesentlichen kreuzförmig gestaltet sind.

6. Packung gemäß einem der vorhergehenden Ansprüche, die weiterhin abgerundete Ecken (26) in der Anordnungsvorrichtung (14) enthält, um ein Biegen der Vorrichtung (14) zu erleichtern, so daß die Löcher (30) die Behälter (22) aufnehmen können.

7. Packung gemäß einem der vorhergehenden Ansprüche, wobei das umgebende Material (16) ein unter Wärme schrumpfbares Verpackungsmaterial oder ein dehnbares Verpackungsmaterial ist.

8. Packung gemäß einem der vorhergehenden Ansprüche, wobei die Anordnungsvorrichtung (14) eine Folie flexiblen Materials umfaßt, die eine Dicke in der Größenordnung von 0,2 mm (0,008 Zoll) hat.

9. Packung gemäß einem der vorhergehenden Ansprüche, wobei die Anordnungsvorrichtung (14) ungefähr innerhalb des Bereiches von 5 bis 10% gedehnt ist, um die Behälter (22) aufzunehmen.

10. Packung gemäß einem der vorhergehenden Ansprüche, wobei jeder Behälter (22) ein auf seiner Oberseite ausgebildetes Merkmal zum leichten Öffnen einschließt.

Revendications

1. Paquet (10) comprenant : un dispositif de rangement (14) formé d'une feuille élastique souple de matière plastique, plusieurs récipients (22), un moyen d'encerclement (16) ; le dispositif de rangement (14) retenant de manière amovible les récipients assemblés en un ensemble prédéterminé ; chacun des récipients (22) ayant un fond (20) ; les récipients (22) étant introduits dans des trous (30) du dispositif de rangement (14), caractérisé en ce que le dispositif de rangement (14) est placé à proximité des fonds (20) ; les trous (30) du dispositif de rangement ont des bords marginaux ayant une circonférence semblable, mais inférieure à celle d'une circonférence correspondante des récipients (22) afin d'y retenir les récipients (22) de manière lâche de façon à permettre l'enlèvement individuel d'un récipient sans déranger l'ensemble ; et en ce que le moyen d'encerclement (16) entoure les récipients (22) et le dispositif de rangement (14) de manière à retenir les récipients (22).



2. Paquet selon la revendication 1, dans lequel le dispositif de rangement (14) comprend des bandes (32) délimitant les trous (30) et comporte par ailleurs des découpures extérieures (36) sur le dispositif de rangement (14) entre trous voisins (30) afin de faciliter la flexion des bandes (32) de manière que les trous (30) puissent réceptionner les récipients (22) et que les bandes (32) puissent se placer contre les récipients (22). 5
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3. Paquet selon la revendication 2, caractérisé en ce que les découpures extérieures (36) ont une forme sensiblement incurvée. 15
4. Paquet selon la revendication 2 ou 3, comprenant par ailleurs des découpures intérieures (38) sur le dispositif de rangement (14) pour faciliter la flexion du dispositif (14) de façon que les trous (30) puissent réceptionner les récipients (22). 20
5. Paquet selon la revendication 4, dans lequel les découpures intérieures (38) ont une forme sensiblement cruciforme. 25
6. Paquet selon l'une quelconque des revendications précédentes, comprenant par ailleurs des angles arrondis (26) sur le dispositif de rangement (14) pour faciliter la flexion du dispositif (14) de façon que les trous (30) puissent réceptionner les récipients (22). 30
7. Paquet selon l'une quelconque des revendications précédentes, dans lequel la matière d'enclerclement (16) est une matière d'enveloppement rétrécissant à la chaleur ou une matière d'enveloppement à étirage. 35
8. Paquet selon l'une quelconque des revendications précédentes, dans lequel le dispositif de rangement (14) consiste en une feuille de matière souple ayant une épaisseur de l'ordre de 0,2 mm (0,008 pouce). 40
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9. Paquet selon l'une quelconque des revendications précédentes, dans lequel le dispositif de rangement (14) est étiré dans une plage approximative de cinq à dix pour cent pour réceptionner les récipients (22). 50
10. Paquet selon l'une quelconque des revendications précédentes, caractérisé en ce que chaque récipient (22) présente une caractéristique d'ouverture facile réalisée dans son sommet. 55