

Description*Purpose of the invention***[0001]**

- The present invention relates to a method to form a cover on top of a product, as also to form a two-piece package including said cover and a tray.
- In particular, this invention relates to a method to form a cover shaped like an inverted "U" on top of a product, including a front, an upper and a back panel, or a cover that includes the aforementioned three panels and furthermore some closing flaps, in order to form a quadrangular cover with an upper panel and four perimetrical edges joined together.
- Furthermore, the present invention also relates to a method to form a two-piece package, comprising the aforementioned three-panel cover or said quadrangular cover on top of the product, and a tray placed around the base of the product, in which said tray can comprise a front panel, a back panel and an inferior panel, or the aforementioned three panels and closing flaps, in order to form a quadrangular tray with a inferior panel and four perimetrical edges joined together, in which, if desired, said cover and said tray are joined together but easily separable.

Background of the invention**[0002]**

- Currently, the known methods to form a cover on top of a product are arduous, inaccurate and require multiple applications of adhesive, and consequently result in less operational speed and relative lack of productivity.
- In addition, these methods include operations that entail the application of force and/or of stress on the being packaged product, with resulting damages to the product and if the product consists in a group of bottles, this stress and/or collision and/or friction between the bottles and the blank-cover may cause undesired overturning of the aforementioned bottles and/or an undesired change in the required form of the batch.
- Finally, these methods are arduous and slow if used to form two-piece packages, as for example packages including the above said cover and a tray around the base of the product; in which said two pieces, if desired, can easily be joined together and separated, with the purpose of transporting the product within a closed package and with the purpose of making the product visible through an easy and rapid removal of the top cover.

[0003]

- The purpose of this invention is to resolve the aforementioned problems.
- The invention, which is characterized by the claims, resolves the problem of creating a method to form a cover on top of a product, in which said cover is formed by a blank-cover which respect to a longitudinal axis comprises at least a back panel, an upper panel and a front panel that are separated by means of transversal creases, in which the product is translated from upstream to downstream along a first products translation path, in which said method is characterized by the fact that it comprises the following operations: **a)**-a blank-cover is placed in a folded configuration in front of and above the product in a first zone upstream of the first path, with its back and upper panels horizontally coplanar placed above the upper side of the product and with the front panel vertically placed in front of the product's front side; **b)**-the blank-cover is translated in this folded configuration from said first zone downstream along the first path as soon as the front side of the product comes against the front panel of the blank; **c)**-the back panel of the blank-cover is folded against the back side of the product while the product and blank-cover are translated downstream along the first path.

Short Description of the Drawing Boards**[0004]**

- Further characteristics and advantages of this invention are rendered more evident by the detailed description that follows of some of the preferred forms of execution, represented here only as an example and without restrictive intent, made with reference to the figures of the enclosed drawings, in which:
 - Figure 1 illustrates a basic method to form a cover shaped like an inverted "U" on top of a product according to a first realization;
 - Figure 1A illustrates a method to form a quadrangular base cover with lateral edges on top of a product, as per a variant of the first realization;
 - Figure 2 illustrates a variant of the method in figure 1A;
 - Figure 3 illustrates a method to form a cover shaped like an inverted "U" on top of a product, and a quadrangular base tray with lateral edges around the base of said product;
 - Figure 3A illustrates a method to form a quadrangular base cover with lateral edges on top of a product, and a quadrangular base tray with lateral edges around the base of said product.

1st Realization - Basic Method to form a cover shaped like an inverted "U".

[0005]

- With respect to Figure 1, it illustrates a first realization of the method subject of the present invention, hereby defined as basic method, which, as will be better understood below, can be used to form covers of different types and/or two-piece packages comprising said covers and a tray.
- In this first realization, the method is act to form a cover like an inverted "U" on top of a product P, in which said cover is formed by a blank-cover A that comprises, with respect to a longitudinal axis A-Y, at least a back panel A-PP, an upper panel A-PS and a front panel A-PA that are separated by means of transversal creases A-10 and A-20.
- In the illustrated example, the products P, hereby illustrated as single lots of bottles, are translated from upstream to downstream along a first path P1 of products translation, for example driven by a translation force F1 acting directly on product P.
- In particular, according to this basic method, following operations are performed: **a)**-the blank-cover A is placed in a folded configuration in the first zone Z1, upstream from the first path P1, above of and in front of the product P, with its back A-PP and upper A-PS panels horizontally coplanar placed above the upper side of the product P and with front panel A-PA vertically placed in front of the front side of the product P; **b)**-the blank-cover A is translated in this folded configuration from the first zone, Z1, downstream along the first path P1, as soon as the front side of the product P comes against and/or near the front panel A-PA of the blank A; **c)**-the back panel A-PP of the blank-cover A is folded against the back side of the product P while the product P and the blank-cover A are translated downstream along the first path P1.
- With reference to operation **a)**, preferably, the back panel A-PP and the upper panel A-PS are translated and placed at a level vertically slightly spaced with respect to the top of the product, thus obtaining an operative configuration in which the blank-cover A is positioned, stopped, suspended, transversally centred and vertically aligned above of and in front of the product P in motion, in such way that said product P can freely advance downstream against the front panel A-PA of this stationary blank-cover A without any interference between the top of the product P and the upper and back panels A-PS and A-PP, thus avoiding any possible overturnings of the bottles and/or avoiding any modifications in the shape of the lot.
- With reference to operation **b)**, preferably, the blank-cover A is translated downstream along the first path P1 as soon as the front side of product P comes

against the front panel A-PA, or little before the front side of the product P comes against the front panel A-PA, thus avoiding and/or limiting the impact between the front side of the product P and the front panel A-PA of the blank-cover A for any of the aforementioned reasons.

- Also with reference to operation **b)**, it is preferable to translate the same blank-cover A from said zone Z1 along a path with a high-low, upstream-downstream longitudinally orientation, in order to delicately place the suspended blank-cover A on top of the product P; alternatively, it is also possible to let the blank-cover A fall on top of the product P as soon as (or little before) the front side of the product P makes contact with the front panel A-PA.
- However, in both cases, the set obtained by P+A and placed downstream of the zone Z1 will comprise a product P partially covered by a blank-cover A correctly placed and centered, namely with the upper panel A-PS lying correctly on top of the upper side of the product P and with the front panel A-PA correctly placed against the front side of the product P.
- Also with reference to the aforementioned basic method, it is preferable to translate the blank-cover A along the first path P1 with substantially the same linear forward speed with respect to the linear forward speed set for the product P, in order to limit and/or to avoid any relative movements between the blank-cover A and the product P.
- Furthermore, in order to translate the product P and the blank-cover A downstream, it is preferable to apply a first force F1 directly on the product P and a second force F2 directly on the blank-cover A; in which said second force F2 will preferably be applied at first along the back edge of the back panel A-PP during the second operation b) and, after and/or during the folding towards the bottom of said back panel A-PP, i.e. third operation c), along the back edge of the upper panel A-PS.
- Also with respect to Figure 1, preferably, in order to position the blank-cover A in the zone Z1, said blank-cover A is translated in a folded configuration along a first segment placed downstream of a second blank-translation path P2 in which said second path P2 will preferably be transversally aligned with respect to the first path P1.
- Furthermore, optionally, this second path P2 can also include a second segment upstream aligned, along which the blank-cover A would be folded from its original flat configuration to its folded configuration.
- Also with respect to Figure 1, in order to obtain a continuous flow of products fit out with a cover, a continuous flow of product P is translated, preferably in a continuous motion, in a single succession and spaced to each other along the first path P1 and, at the same time, a blank-cover A in a folded configuration can be inserted and placed in said zone Z1 in

phase correlation and in a single succession, using for this insertion/positioning operation the time interval between two products P positioned in an immediate succession.

2nd Realization - Method to form a quadrangular cover with lateral edges.

[0006]

- With reference to Figure 1A, it illustrates a second form of realization of the aforementioned basic method here used to form a quadrangular cover with lateral edges on top of the product P.
- In this second form of realization, the blank-cover, here indicated as A1, besides the aforementioned front, upper and back panels, A-PA, A-PS, A-PP, also includes closing flaps determined by means of creases and, more particularly, front closing flaps A-PAsx and A-PAdx placed on the opposite transversal ends of the front panel A-PA, upper closing flaps, A-PSsx, A-PSdx, placed on the opposite transversal ends of the upper panel A-PS, and back closing flaps, A-PPsx, A-PPdx, placed on the opposite transversal ends of the back panel A-PP.
- In this case, and in a substantially similar-identical manner as the previous one, following operations are performed: **a)**-a blank-cover A1 is placed in the first zone Z1 upstream from the first path P1, in a folded configuration, above and in front of the product P, with its back A-PP and upper A-PS panels horizontally coplanar placed above the upper side of product P and with the front panel A-PA vertically placed in front of the front side of product P; **b)**-the blank-cover A1 is translated in the aforementioned folded configuration from the first zone, Z1, downstream along the first path P1, as soon as the front side of the product P comes against the front panel A-PA of the blank-cover A; afterwards, the other operations are executed in order to form the cover, i.e.: **c1)**-the closing flaps A-PAsx, A-PAdx, of the front panel A-PA of the blank-cover A1 are folded inwards against the product P; **c2)**-the closing flaps A-PPsx, A-PPdx, of the back panel A-PP of the blank-cover A1 are folded towards the bottom; **c3)**-the back panel A-PP of the blank-cover A1 is folded downwards and against the product P; **c4)**-the closing flaps A-PSsx, A-PSdx, of the upper panel A-PS of the blank-cover A1 are folded downwards and against the closing flaps A-PAsx, A-PPsx, A-PAdx, A-PPdx of the front panel A-PA and of the back panel A-PP.
- With reference to the aforementioned method, please note that operations **a)** and **b)** are identical with respect to the operations **a)** and **b)** of the first realization, and that the operation **c3)** corresponds to the operation **c)** of the first realization.
- Furthermore, it is preferable to join the closing flaps A-PSsx and A-PSdx of the upper panel A-PS with

and above the closing flaps A-PAsx, A-PAdx, A-PPsx, A-PPdx, of the front panel A-PA and of the back panel A-PP; in which in order to obtain said joints adhesive is placed on the internal-lower side of the upper closing flaps, A-PSsx and A-PSdx, of the upper panel A-PS and/or on the external side of the front closing flaps, A-PAsx and A-PAdx, of the front panel A-PA, and/or on the external side of the back closing flaps, A-PPsx and A-PPdx, of the back panel A-PP, in which also preferably, said adhesive is applied during the translation of the blank-cover A along the first translation path P1.

- In this way, as a consequence of the operations described above, a quadrangular cover will be formed on top of the product P, which will have an upper panel PS and four vertical edges on the four sides, in which said upper panel PS and the four vertical edges are joined together.

3rd Realization - Method to form a quadrangular cover with lateral edges.

[0007]

- With reference to Figure 2, it illustrates a third realization of the basic method, in which the front closing flaps, A-PAsx, A-PAdx, the upper closing flaps, A-PSsx, A-PSdx, and the back closing flaps, A-PPsx, A-PPdx, are folded by means of a different operative method.
- In this case, the method is the same as described in the second realisation for operations **a)** and **b)** and, afterwards the following operations are performed: **c1)**-the closing flaps A-PSsx, A-PPdx, of the upper panel A-PS of the blank-cover A1 are folded downwards and against the product P; **c2)**-the closing flaps A-PPsx, A-PPdx, of the back panel A-PP of the blank-cover A1 are folded downwards; **c3)**-the back panel A-PP of the blank-cover A1 is folded downwards and against the product P, with closing flaps A-PPsx, A-PPdx, of the back panel A-PP placed over the closing flaps A-PSsx, A-PSdx of the upper panel A-PS.; **c4)**-the closing flaps A-PAsx, A-PAdx, of the front panel A-PA of the blank-cover A1 are folded inwards over the closing flaps A-PSsx, A-PSdx, of the upper panel A-PS.
- With reference to the aforementioned method, please note that the operations **a)** and **b)** are identical with respect to the operations **a)** and **b)** of the first realization, and that the operation **c3)** corresponds to the operation **c)** of the first realization.
- With reference to said third form of realization, it is preferable to join the front closing flaps A-PAsx and A-PAdx and the back closing flaps A-PPsx and A-PPdx, with and over the upper closing flaps, A-PSsx and A-PSdx, of the upper panel A-PS; in order to obtain said joints it is preferable to apply adhesive on the external upper side of the upper closing flaps,

A-PSsx and A-PSdx, and/or on the internal side of the front closing flaps, A-PAsx and A-PAdx, and/or on the internal side of the back closing flaps, A-PPsx and A-PPdx.

- Also in this case, said adhesive should preferably be applied during the translation of the blank cover A along the first translation path P1.

4th Realization - Method to form a two-piece box including a cover shaped like an inverted "U" and a quadrangular tray with perimetrical edges.

[0008]

- With reference to Figure 3, it illustrates a fourth realization in which during the translating the product P along the first path P1, a tray is formed close to the base of the product P, in order to form a two-piece package with a cover shaped like an inverted "U" and a quadrangular tray with lateral edges close to the base of the product.
- In this context, as will be better understood below, the cover shaped like a "U" is formed by means of the blank-cover A from the first realization and following the same operative method.
- With reference to the bottom tray, in this realization, it is formed by means of a second blank-tray B, which, with respect to a longitudinal extension axis B-Y, includes a front panel B-PA with closing flaps B-PAsx, B-PAdx, an inferior panel B-PI with closing flaps B-Plsx, B-Pldx, and a back panel B-PP with closing flaps B-PPsx, B-PPdx, all of these separated by means of creases.
- With reference to the said figure 3, this fourth realization comprises the following operations: **a)**-the aforementioned blank-tray B is placed flat along the first translation path P1 of products P translation, with the inferior panel B-PI placed under the bottom side of the product P, the front panel B-PA placed downstream, and the back panel B-PP placed upstream; **b)**-in the first zone Z1, upstream from the first path P1, a blank-cover A is placed in a folded configuration above and in front of the product P, with its back A-PP and upper A-PS panels horizontally coplanar placed above the upper side of the product P and with the front panel A-PA vertically placed in front of the front side of the product P; **c)**-the blank-cover A is translated in this aforementioned folded configuration from the first zone, Z1, downstream along the first path P1, as soon as the front side of the product P comes near or against the front panel A-PA of the blank-cover A; **d)**-the back panel A-PP of the blank-cover A is folded against the back side of the product P, while the blank-tray B with product P and the blank-cover A are translated downstream along the first path P1; **e)**-operations are performed in order to fold the front panel B-PA, the back panel B-PP, and the closing flaps B-PAsx,

B-PAdx, B-Plsx, B-Pldx, B-PPsx, and B-PPdx of the blank-tray B around the base of the product.

- With reference to the aforementioned method, please note that the operations **b)**, **c)** and **d)** are substantially identical with respect to the operations **a)**, **b)** and **c)** of the first realization.
- Furthermore, in particular after operation **d)** of the aforementioned fourth realization, following operations are performed: **e1)**-the front panel B-PA of the blank-tray B is folded against the front panel A-PA of the blank-cover A; **e2)**-the closing flaps B-PPsx, B-PPdx, of the back panel B-PP of the blank-tray B are folded towards the top; **e3)**-the closing flaps B-PAsx, B-PAdx, of the front panel B-PA of the blank-tray B are folded inwards against the product P; **e4)**-the back panel B-PP of the blank-tray B is folded against the back panel A-PP of the blank-cover A, with the closing flaps B-PPsx, B-PPdx of the aforementioned back panel B-PP of the blank-tray B placed next to the lateral sides of the product P; **e5)**-the closing flaps B-Plsx and B-Pldx of the lower panel B-PI of the blank-tray B are folded upwards against the closing flaps B-PAsx, B-PPsx and B-PAdx, B-PPdx, of the front panel B-PA and of the back panel B-PP of the blank-tray B;

5th Realization - Method to form a two-piece box including a quadrangular cover with perimetrical edges and a quadrangular tray with perimetrical edges.

[0009]

- With respect to the Figure 3A, it illustrates a fifth realization during which while translating the product P along the first path P1, a quadrangular cover with lateral edges is formed on top of the product P and a quadrangular tray with lateral edges is formed around the base of said product.
- In this context, as will be better understood below, the cover is formed by means of the blank-cover A1 from the second realization and by using the basic method from the first realization, while the bottom tray is formed by using a blank-tray B like in the previous fourth realization.
- In particular, said fifth realization comprises the following operations: **a)**-the aforementioned blank-tray B is placed flat along the first translation path P1 of products P translation, with the lower panel B-PI placed under the bottom side of the product P, the front panel B-PA placed downstream, and the back panel B-PP placed upstream; **b)**-in the first zone Z1, upstream from the first path P1, a blank-cover A is placed in a folded configuration above and in front of the product P, with its back A-PP and upper A-PS panels horizontally coplanar placed above the upper side of the product P and with the front panel A-PA vertically placed in front of the front side of the product P; **c)**-the blank-cover A is translated in the afore-

mentioned folded configuration from the first zone, Z1, downstream along the first path P1, as soon as the front side of the product P placed over the inferior panel B-PI of the blank-tray B comes near or against the front panel A-PA of the blank-cover A; **d)** the back panel A-PP of the blank-cover A is folded against the back side of the product P, while the blank-tray B, together with the product P and the blank-cover A, are translated furtherly downstream along the first path P1; **e)** the operations of folding and forming of the quadrangular cover with lateral edges and the quadrangular tray with lateral edges are then executed.

- With reference to the aforementioned method, please note that the operations **b)**, **c)** and **d)** are substantially identical with respect to the operations **a)**, **b)** and **c)** of the first realization.
- Furthermore, in particular, preferably after the operation **d)** of this aforementioned fifth realization, the following operations are performed: **e1)** the closing flaps A-PAsx, A-PAdx, of the front panel A-PA of the blank-cover A are folded against the product P; **e2)** the closing flaps A-PPsx, A-PPdx, of the back panel A-PP of the blank-cover A are folded downwards; **e3)** the front panel B-PA of the blank-tray B is folded against the front panel A-PA of the blank-cover A; **e4)** the back panel A-PP of the blank-cover A is folded towards the bottom and against the product P, with closing flaps A-PPsx, A-PPdx, of the back panel A-PP placed on the sides of the product P; **e5)** the closing flaps B-PPsx, B-PPdx, of the back panel B-PP of the blank-tray B are folded towards the top; **e6)** the closing flaps B-PAsx, B-PAdx, of the front panel B-PA of the blank-tray B are folded against the respective closing flaps A-PAsx, A-PAdx, of the front panel A-PA of the blank-cover A; **e7)** the back panel B-PP of the blank-tray B is folded against the back panel A-PP of the blank-cover A, with the closing flaps B-PPsx, B-PPdx of the aforementioned back panel B-PP of the blank-tray B placed next to the closing flaps, A-PPsx and A-PPdx, of the back panel A-PP of the blank-cover A; **e8)** the closing flaps A-PSsx, A-PSdx, of the upper panel A-PS of the blank-cover A are folded towards the bottom and against the closing flaps A-PAsx, A-PPsx, A-PAdx, A-PPdx of the front and back panels A-PA and A-PP of the blank-cover A; **e9)** the closing flaps B-Plsx and B-Pldx of the lower panel B-PI of the blank-tray B are folded upwards against the closing flaps B-PAsx, B-PPsx, B-PAdx, and B-PPdx of the front and back panels B-PA and B-PP of the blank-tray B.

Common characteristics between the fourth and the fifth realization

[0010]

- With reference to the fourth and the fifth realization,

it is optionally possible to join together the cover with respect to the tray, preferably by unions that should have a calibrated resistance for an easy detachment in order to facilitate the removal of the cover, so that the product lot could be exhibited on its tray at the points of sale and also easily removed from the tray in order to be bought.

- In this context, it is preferable for the front panel A-PA to be joined to the front panel B-PA, by applying the adhesive C1, C2, on the external side of the front panel A-PA and/or on the internal side of the front panel B-PA, in those zones where these two sides will be joined together and where the adhesive will preferably be applied on during the translation of the blanks along said first P1 or second P2 translation paths.
- Furthermore, and in the same manner, it is also possible to join together the back panel A-PP with the back panel B-PP, by using the adhesive C3, C4, applied on the external side of the back panel A-PP and/or on the internal side of the back panel B-PP, preferably also along the first or second translation path P1, P2.
- By means of these unions, it is for example sufficient to insert a hand from up to down between the two joint panels in order to obtain a detachment and therefore an immediate removal of the cover.

Cover and Two-piece package

[0011]

- With reference to the above said, the present invention also concerns a cover shaped like an inverted "U" or a quadrangular cover with lateral edges obtained through one of the above described methods related to this matter, as well as a two-piece package including a cover and a tray obtained through the use of one of these methods.
- The descriptions of the aforementioned methods are given purely as an example and are not to be considered a restriction and, therefore, it is obvious that suggested modifications and/or variations could be made to them during the practice and/or by the use of these methods, anyway within the scope of the following claims.
- In such context, these following claims also form an integral part of the description stated above.

Claims

1. Method to form a cover on top of a product (P), in which said cover is formed by a blank-cover (A / A1) that includes, with respect to a longitudinal axis (A-Y), at least a back panel (A-PP), an upper panel (A-PS), and a front panel (A-PA) that are separated by means of transversal creases (A-10, A-20); in which

the product (P) is translated from upstream to downstream along a first products translation path (P1), **characterized by the fact that** it comprises the following operations: **a)** in the first zone (Z1), upstream of the first path (P1), a blank-cover (A / A1) is placed in a folded configuration above of and in front of the product (P), with the back (A-PP) and upper (A-PS) panels placed horizontally coplanar above the upper side of the product (P) and with the front panel (A-PA) placed vertically in front of the front side of the product (P); **b)** the blank-cover (A / A1) is translated in the aforementioned folded configuration from the first zone (Z1) downstream along the first path (P1), as soon as the front side of the product (P) comes against the front panel (A-PA) of the blank-cover (A).

2. Method according to Claim 1, **characterized by the fact that** after the operation **b)** is executed a further operation **c)** in which the back panel (A-PP) of the blank-cover (A / A1) is folded against the back side of the product (P) while the product (P) and the blank-cover (A / A1) are translated downstream along the first path (P1).

3. Method according to Claim 1 or 2, **characterized by the fact that** the operation **b)** consists in a different operation **b1)** in which the blank-cover (A / A1) in the aforementioned folded configuration is translated downstream from said first zone (Z1) along the first path (P1) a short time before the front side of the product (P) comes against the front panel (A-PA) of the blank-cover (A).

4. Method according to one of the claims from 1 to 3, **characterized by the fact that** the blank-cover (A / A1) is translated at a linear forward speed that is substantially equal to the linear forward speed imposed on the product (P).

5. Method according to one of the claims from 1 to 4, **characterized by the fact that** during the execution of the operation **b)** and/or **b1)** a first force (F1) can be directly applied on the product (P) to translate said product (P) downstream, and a different second force (F2) directly applied on the blank-cover (A / A1) to translate said blank-cover (A / A1) downstream.

6. Method according to one of the claims from 2 to 5, **characterized by the fact that** during the execution of the operation **c)** a first force (F1) is directly applied on the product (P) to translate said product (P) downstream, and a different second force (F2) is directly applied on the blank-cover (A / A1) to fold the back panel (A-PP) downwards and to move downstream the same blank-cover (A/A1).

7. Method according to one of the claims from 1 to 6,

characterized by the fact that for the execution of the operation **a)** the blank-cover (A / A1) is translated in a folded configuration along a second blank-cover (A / A1) translation path (P2).

8. Method according to claim 7, **characterized by the fact that** said second blank-cover (A/A1) translation path (P2) is inclined and/or transversally oriented with respect to the first path (P1).

9. Method according to one of the claims from 1 to 8, **characterized by the fact that** for the execution of the operation **a)** the blank-cover (A/A1) is translated in a folded configuration along the second path (P2) with the upper panel (A-PS) and the back panel (A-PP) placed above the top of the product (P).

10. Method according to one of the claims from 1 to 9, **characterized by the fact that** before of the operation **a)** the blank-cover (A/A1) is folded from its flat configuration to its folded configuration.

11. Method according to Claim 10, **characterized by the fact that** the blank-cover (A/A1) is folded from its flat configuration to its folded configuration along a segment of the aforementioned second blank-cover (A / A1) translation path (P2).

12. Method according to one of the previous claims, **characterized by the fact that** a products flow is translated in a continuous motion and in a single spaced succession along said first path (P1) and **by the fact that** in said zone (Z1) are inserted the aforementioned blank-covers (A/A1) in single succession by means of the existing space between two successive products (P).

13. Method according to one of the previous claims, **characterized by the fact that** said blank-cover (A/A1) further comprises: >-front closing flaps (A-PAsx, A-PAdx) placed on the opposite transversal ends of the front panel (A-PA); >-upper closing flaps (A-PSsx, A-PSdx) placed on the opposite transversal ends of the upper panel (A-PS); >-back closing flaps (A-PPsx, A-PPdx) placed on the opposite transversal ends of the back panel (A-PP); **and by the fact that** after the operation **b)** the following operations are comprised: **c1)**-the closing flaps (A-PAsx, A-PAdx) of the front panel (A-PA) of the blank-cover (A1) are folded inwards against the product (P); **c2)**-the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) of the blank-cover (A1) are folded downwards; **c3)**-the back panel (A-PP) of the blank-cover (A1) is folded downwards against the product (P); **c4)**-the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS) of the blank-cover (A1) are folded downwards against the closing flaps (A-PAsx, A-PPsx, A-PAdx, A-PAdx) of the front panel (A-PA)

and of the back panel (A-PP).

14. Method according to Claim 13, **characterized by the fact that** the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS) of the blank-cover (A1) are joined together with and over the closing flaps (A-PAsx, A-PAdx, A-PPsx, A-PPdx) of the front panel (A-PA) and of the back panel (A-PP) of said blank-cover (A1). 5
15. Method according to Claim 14, **characterized by the fact that** in order to obtain said joints adhesive is placed on the internal side of the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS) of the blank-cover (A1). 10
16. Method according to one of the claims from 14 to 15, **characterized by the fact that** in order to obtain said joints adhesive is placed on the external side of the closing flaps (A-PAsx, A-PAdx) of the front panel (A-PA) of the blank-cover (A1). 20
17. Method according to one of the claims from 14 to 16, **characterized by the fact that** in order to obtain said joints adhesive is placed on the external side of the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) of the blank-cover (A1). 25
18. Method according to one of the claims from 15 to 17, **characterized by the fact that** said adhesive is applied during the translation of the blank-cover (A1) along the first translation path (P1). 30
19. Method according to one of the claims from 1 to 12, **characterized by the fact that** said blank-cover (A / A1) further comprises: >-front closing flaps (A-PAsx, A-PAdx) placed on the opposite transversal ends of the front panel (A-PA); >-upper closing flaps (A-PSsx, A-PSdx) placed on the opposite transversal ends of the upper panel (A-PS); >-back closing flaps (A-PPsx, A-PPdx) placed on the opposite transversal ends of the back panel (A-PP), and **by the fact that** after the operation **b**) the following operations are comprised: **c1**)-the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS) of the blank-cover (A1) are folded downwards against product (P); **c2**)-the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) of the blank-cover (A1) are folded downwards; **c3**)-the back panel (A-PP) of the blank-cover (A1) is folded downwards against the product (P), with the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) placed over the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS); **c4**)-the closing flaps (A-PAsx, A-PAdx) of the front panel (A-PA) of the blank-cover (A1) are folded inwards over the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS). 35 40 45 50

20. Method according to claim 19, **characterized by the fact that** the closing flaps (A-PAsx, A-PAdx, A-PPsx, A-PPdx) of the front panel (A-PA) and of the back panel (A-PP) of the blank-cover (A1) are joined together with and over the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS) of said blank-cover (A1). 5
21. Method according to Claim 20, **characterized by the fact that** in order to obtain said joints adhesive is placed on the external side of the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS) of the blank-cover (A1). 10
22. Method according to one of the claims from 20 to 21, **characterized by the fact that** in order to obtain said joints adhesive is placed on the internal side of the closing flaps (A-PAsx, A-PAdx) of the front panel (A-PA) of the blank-cover (A1). 15
23. Method according to one of the claims from 20 to 22, **characterized by the fact that** in order to obtain said joints adhesive is placed on the internal side of the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) of the blank-cover (A1). 20
24. Method according to one of the claims from 21 to 23, **characterized by the fact that** said adhesive is applied during the translation of the blank-cover (A1) along the first translation path (P1). 25
25. Method according to one of the claims from 1 to 24, **characterized by the fact that** along said first translation path (P1) further operations are performed in order to insert a blank-tray (B) under the bottom side of the product (P) and in order to fold said second blank-tray (B) around the base of the product (P) in order to form a two-piece package including a cover formed according to one of the previous claims and a tray. 30 35 40 45
26. Method according to Claim 25, **characterized by the fact that** said blank-tray (B) comprises, with respect to a longitudinal axis (B-Y), at least a front panel (B-PA), an inferior panel (B-PI) and a back panel (B-PP) separated by means of creases, **and by the fact that** said blank-tray (B) is placed in a flat configuration along the first translation path (P1) of products (P) with the lower panel (B-PI) placed under the bottom side of the product (P), the front panel (B-PA) placed downstream, and the back panel (B-PP) placed upstream. 50
27. Method according to one of the claims from 1 to 26, **characterized by the fact that** during the translation of the product (P) along the first path (P1) is formed a two-piece package, **in which** said two-piece package comprises a cover shaped like an 55

inverted "U" on the top of the product (P) and a quadrangular tray with lateral edges close to the base of the product, **in which** said cover is formed by means of a blank-cover (A) which comprises, with respect to a longitudinal axis (A-Y), at least a back panel (A-PP), an upper panel (A-PS), and a front panel (A-PA) separated by means of creases, **in which** said tray is formed by a second blank-tray (B) which comprises, with respect to a longitudinal axis (B-Y) and separated by means of creases, at least a front panel (B-PA) with closing flaps (B-PAsx, B-PAdx), a lower panel (B-PI) with closing flaps (B-Plsx, B-PI dx), a back panel (B-PP) with closing flaps (B-PPsx, B-PPdx), and **characterized by the fact that** said method comprises the following operations: **a)**-the said blank-tray (B) is placed flat along the first translation path (P1) of products (P) with the lower panel (B-PI) placed under the bottom side of the product (P), the front panel (B-PA) placed downstream, and the back panel (B-PP) placed upstream; **b)**-in the first zone (Z1), placed upstream of the first path (P1), a blank-cover (A) is placed in a folded configuration above of and in front of the product (P), with its back (A-PP) and upper (A-PS) panels placed horizontally coplanar to each other above the upper side of the product (P) and with front panel (A-PA) placed vertically in front of the front side of the product (P); **c)**-the blank-cover (A) is translated in this folded configuration from said first zone (Z1) downstream along the first path (P1) as soon as the front side of the product (P) placed over the lower panel (B-PI) of the blank-tray (B) comes against or near the front panel (A-PA) of the blank-cover (A); **d)**-the back panel (A-PP) of the blank-cover (A) is folded against the back side of the product (P) while the blank-tray (B) together with the product (P) and the blank-cover (A) are translated furtherly downstream along the first path (P1); **e)**-operations are performed in order to fold the front panel (B-PA), the back panel (B-PP), and the closing flaps (B-PAsx, B-PAdx, B-Plsx, B-PI dx, B-PPsx, and B-PPdx) of the blank-tray (B) around the base of the product (P).

28. Method according to Claim 27, **characterized by the fact that** after the operation **d)** following operations are performed: **e1)**-the front panel (B-PA) of the blank-tray (B) is folded against the front panel (A-PA) of the blank-cover (A); **e2)**-the closing flaps (B-PPsx, B-PPdx) of the back panel (B-PP) of the blank-tray (B) are folded upwards; **e3)**-the closing flaps (B-PAsx, B-PAdx) of the front panel (B-PA) of the blank-tray (B) are folded inwards against the product (P); **e4)**-the back panel (B-PP) of the blank-tray (B) is folded against the back panel (A-PP) of the blank-cover (A), with the closing flaps (B-PPsx, B-PPdx) of said back panel (B-PP) of the blank-tray (B) placed next to the lateral sides of the product (P); **e5)**-the closing flaps (B-Plsx and B-PI dx) of the lower

panel (B-PI) of the blank-tray (B) are folded upwards against the closing flaps (B-PAsx, B-PPsx, B-PAdx, B-PPdx) of the front panel (B-PA) and of the back panel (B-PP) of the blank-tray (B).

29. Method according to one of the claims from 1 to 26, **characterized by the fact that** during the translation of the product (P) along the first path (P1) is formed a two-piece package, **in which** said two-piece package comprises a quadrangular cover with lateral edges on top of the product (P) and a quadrangular tray with lateral edges close to the base of the product (P), **in which** said cover is formed by means of a first blank-cover (A1) that comprises, separated by means of creases and with respect to a longitudinal axis (A-Y), at least a front panel (A-PA) with its corresponding front closing flaps (A-PAsx, A-PAdx), an upper panel (A-PS) with its corresponding upper closing flaps (A-PSsx, A-PSdx), and a back panel (A-PP) with its corresponding back closing flaps (A-PPsx, A-PPdx); **in which** said tray is formed by means of a second blank tray (B) that comprises, separated by means of creases and with respect to a longitudinal axis (B-Y), at least a front panel (B-PA) with closing flaps (B-PAsx, B-PAdx), a lower panel (B-PI) with closing flaps (B-Plsx, B-PI dx), a back panel (B-PP) with closing flaps (B-PPsx, B-PPdx), and **characterized by the fact that** said method comprises the following operations: **a)**-the said blank-tray (B) is placed flat along the first path (P1) of product (P) translation with the lower panel (B-PI) placed under the bottom side of the product (P), the front panel (B-PA) placed downstream, and the back panel (B-PP) placed upstream; **b)**-in the first zone (Z1) placed upstream of the first path (P1), the blank-cover (A) is placed in a folded configuration above of and in front of the product (P), with its back (A-PP) and upper (A-PS) panels horizontally coplanar to each other placed above the upper side of the product (P) and with front panel (A-PA) placed vertically in front of the front side of the product (P); **c)**-the blank-cover (A) is translated in this folded configuration from the first zone (Z1) downstream along the first path (P1) as soon as the front side of product (P) placed over the inferior panel (B-PI) of the blank-tray (B) comes against or near the front panel (A-PA) of the blank-cover (A); **d)**-the back panel (A-PP) of the blank-cover (A) is folded against the back side of the product (P) while the blank-tray (B), together with the product (P) and the blank-cover (A), are translated furtherly downstream along the first path (P1); **e)**-the operations for folding the further panels and the closing flaps are executed in order to complete the forming of the quadrangular cover with lateral edges and the quadrangular tray with lateral edges.

30. Method according to claim 29, **characterized by the**

fact that after the operation **d)** the following operations are performed: **e1)**-the closing flaps (A-PAsx, A-PAdx) of the front panel (A-PA) of the blank-cover (A1) are folded against the product (P); **e2)**-the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) of the blank-cover (A1) are folded downwards; **e3)**-the front panel (B-PA) of the blank-tray (B) is folded against the front panel (A-PA) of the blank-cover (A); **e4)**-the back panel (A-PP) of the blank-cover (A1) is folded downwards against the product (P) with the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) placed on the sides of the product (P); **e5)**-the closing flaps (B-PPsx, B-PPdx) of the back panel (B-PP) of the blank-tray (B) are folded upwards; **e6)**-the closing flaps (B-PAsx, B-PAdx) of the front panel (B-PA) of the blank-tray (B) are folded against the respective closing flaps (A-PAsx, A-PAdx) of the front panel (A-PA) of the blank-cover (A1); **e7)**-the back panel (B-PP) of the blank-tray (B) is folded against the back panel (A-PP) of the blank-cover (A1) with the closing flaps (B-PPsx, B-PPdx) of said back panel (B-PP) of the blank-tray (B) placed next to the closing flaps (A-PPsx, A-PPdx) of the back panel (A-PP) of the blank-cover (A1); **e8)**-the closing flaps (A-PSsx, A-PSdx) of the upper panel (A-PS) of the blank-cover (A) are folded downwards and against the closing flaps (A-PAsx, A-PPsx, A-PAdx, A-PAdx) of the front and back panels (A-PA, A-PP); **e9)**-the closing flaps (B-Plsx, B-Pldx) of the lower panel (B-PI) of the blank-tray (B) are folded upwards against the closing flaps (B-PAsx, B-PPsx, B-PAdx, and B-PPdx) of the front and back panels (B-PA, B-PP) of the blank-tray (B).

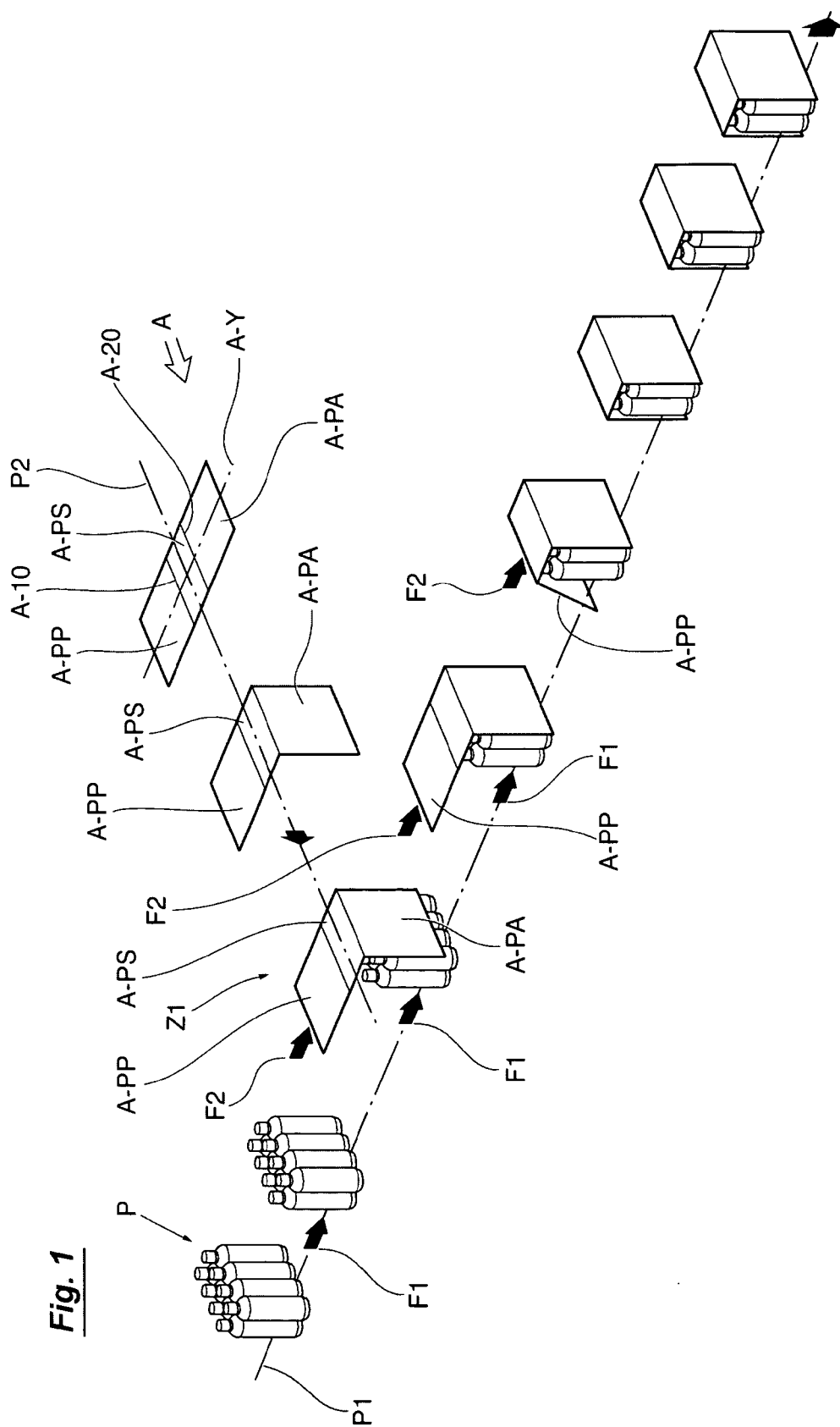
31. Method according to one of the claims from 27 to 30, **characterized by the fact that** is provided to join together the cover with the tray.
32. Method according to Claim 31, **characterized by the fact that** said junction has a resistance that is calibrated for an easy detachment.
33. Method according to one of the claims from 27 to 32, **characterized by the fact that** the front panel (A-PA) of the blank-cover (A) and the front panel (B-PA) of the blank-tray (B) are joined together.
34. Method according to Claim 33, **characterized by the fact that** said junction is obtained by using an adhesive (C2) applied on the external side of the front panel (A-PA) of the blank-cover (A) and/or an adhesive (C1) applied on the internal side of the front panel (B-PA) of the blank-tray (B).
35. Method according to one of the claims from 27 to 34, **characterized by the fact that** the back panel (A-PP) of the blank-cover (A) and the back panel (B-PP) of the blank-tray (B) are joined together.

36. Method according to Claim 35, **characterized by the fact that** said junction is obtained by using an adhesive (C3) applied on the external side of the back panel (A-PP) of the blank-cover (A) and/or an adhesive (C4) applied on the internal side of the back panel (B-PP) of the blank-tray (B).

37. Method according to one of the claims from 34 to 36, **characterized by the fact that** said adhesive is applied during the translation of the blank-cover (A/A1) and of the blank-tray (B) along the first translation path (P1).

38. Cover obtained according to one of the claims from 1 to 37.

39. Two-piece package including a cover and a tray obtained according to one of the claims from 27 to 37.



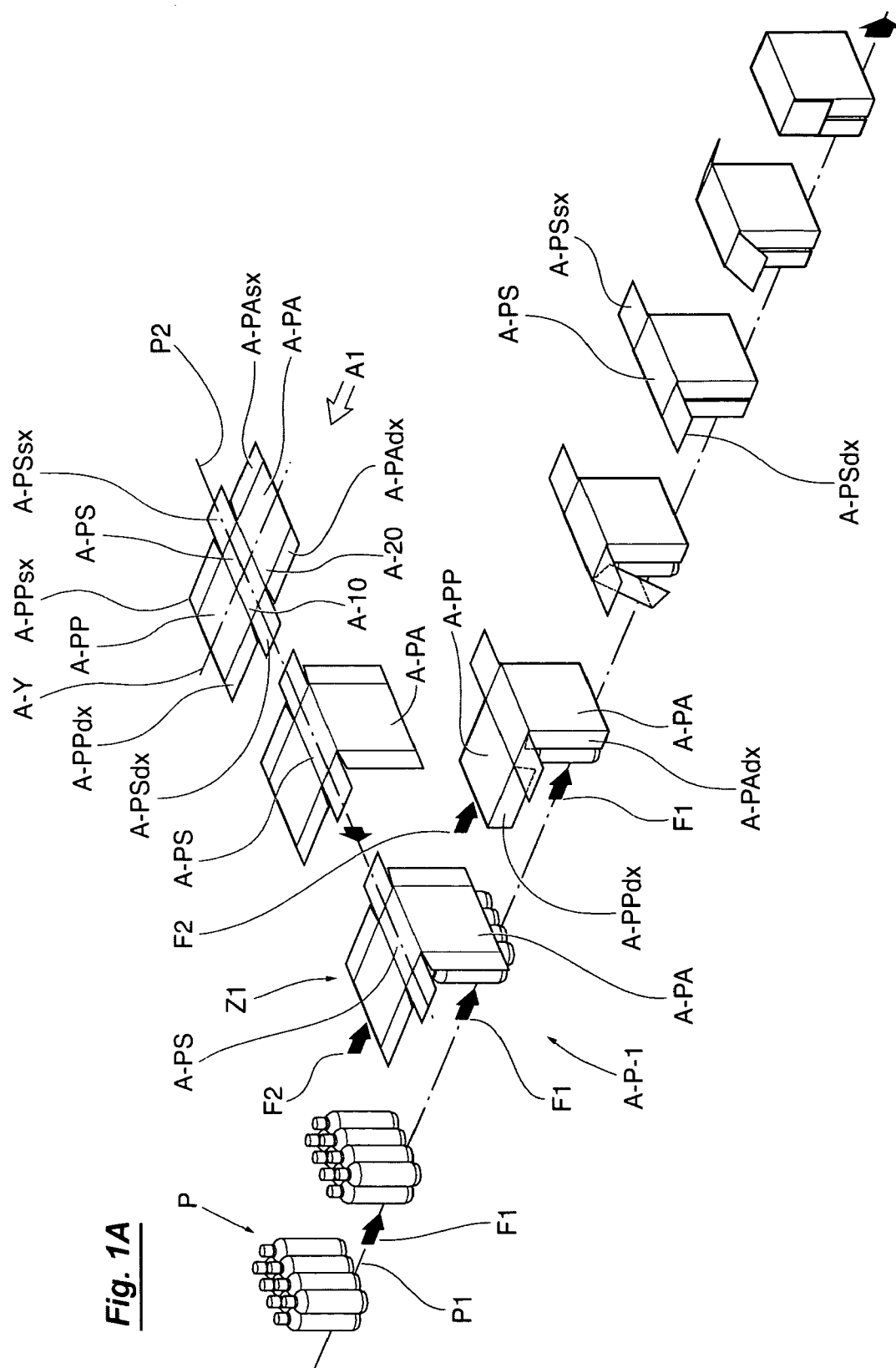


Fig. 2

