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(54) MULTIPLE-PACKAGE SLEEVE CONTAINER

HÜLSENBEHÄLTER FÜR SAMMELPACKUNG

EMBALLAGE DE REGROUPEMENT JUMELE

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(73) Proprietor: **PIOTROWSKI, Zygmunt**
02495 Warszawa (PL)

(72) Inventor: **PIOTROWSKI, Zygmunt**
02495 Warszawa (PL)

(74) Representative: **Hano, Christian, Dipl.-Ing. et al**
v. Füner Ebbinghaus Finck Hano
Mariahilfplatz 2 & 3
81541 München (DE)

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Description

[0001] The subject of the invention is the multiple-package sleeve container, made up of a punched blank of pasteboard or the like, designed for wrapping and carrying the bunches of consumer packages.

DESCRIPTION OF THE RELATED ART.

[0002] The nearest prior art to the invention claimed is represented by patent document FR-A-2,570,678 which discloses a kind of multiple-package sleeve container, designed for wrapping-up and carrying the consumer package bunches, punched from an integral blank of pasteboard or the like, the two ends of which are superimposed and glued together forming a sleeve with a top, two side walls and a bottom.

[0003] Additionally, the top and the bottom are provided with openings which stabilise the package bunch being packed in position, and the top is completed with a separate sheet, provided with two panels partly overlapped with one another, forming the grip.

[0004] A disadvantage of this known solution is that it can only be used with relatively light and small consumer package bunches formed into six-packs of bottled beverages, the packs of a rather high susceptibility to tearing while being carried.

[0005] Significant disadvantage of this solution is that the wrapping-up of the consumer package bunches in the pasteboard blank is technologically involved, as suitable machines and pasteboard of adequate rigidity are needed. The packaging processes require automatic gluing machines to be used, and the special devices which lock the grips to the pasteboard blanks. All this accounts for that fully automatic packaging process, connected with considerable outlays, is economically justified only for industrial big scale, large enough to secure return on investment related to the purchase of specialist machines and equipment.

[0006] Known from the disclosure of the European Patent Specification EP 0,907,580, is a bottle pack container for carrying bottles with contents, preferably made of pasteboard or cardboard, formed from two symmetrical carrying parts, the central walls of which are superimposed so as to form the central portion of the container, the central walls having openings superimposed and connected by a lock to form a grip, whereas each of the carrying parts comprises at least one partly cut ring with a cut-out internal opening, provided with a frontal wing, wherein each of the said carrying parts comprises, in addition to the central wall, a bottom wall and an external wall which forms the external portion of the carrier, said external wall fastened to the frontal wing and, by means of the ring, connects the central portion with the external portion of each of the parts of the carrier. Additionally, each of the external walls is provided with two symmetrically arranged holes into which the girded polypropylene strap is inserted. The strap prevents the bottles situated on the outside of the carrier-fastening rings from falling out of the carrier.

[0007] A disadvantage of this known solution is a relatively high manufacturing cost of the container protecting its contents both from outside and inside of the multiple package. The high manufacturing cost of this package is due to the need for an exact cementing of the parts of its supporting structure. Moreover, the open work design of the elements clamping the central and external portions of the container offers some problems in mechanical loading of consumer packages, which results in a rather high percentage of damage to the board structure.

[0008] Known also from the patent application filed with the Polish Patent Office is a utility patent W-109211 by the same applicant, which provides a description of a simplified multiple-package container. The container is in the form of a pasteboard sleeve girded with polypropylene strap and is designed for package and carrying consumer package bunches, particularly cans, jars or beverage bottles. The multiple-package container punched from an integral blank of pasteboard or the like, the two ends of which are superimposed and fastened to each other with an adhesive, comprises a top, a bottom and two front walls, wherein each of the front walls is additionally made to extend beyond the side edges along the fold lines in the form of two strips. A hole is provided in the middle of the length of each of said fold lines, against the edges of which rests the polypropylene strap that girds the multiple-package container.

[0009] The simple design of the solution described above has the major disadvantage which is that the opening of the sleeve results in a tight fit for the contents. Although a tight fit of the sleeve opening to the bunch of consumer packages prevents them from moving freely with respect to one another, the fact that the sleeve opening provides a tight fit results in that the consumer packages cannot be rapidly packed into the pasteboard sleeve. This presents a significant deterrent to automation of the packaging operation using the container made according to the design described above.

SUMMARY OF THE INVENTION

[0010] The purpose of the invention is the multiple-package sleeve container free from the above-mentioned disadvantages and inconveniences. The invention has been materialized in a pointed embodiments, each of which leads to the multiplicity of its designs.

[0011] The purpose of the invention has been achieved in a multiple-package sleeve container, designed for wrapping-up and carrying bunches of consumer packages, made up of a punched blank of pasteboard or the like, with two ends overlapped and glued together, which contains a top with openings stabilising the package bunch being packed in position, two side walls and a bottom, the sleeve transversally girded with a strap, wherein each of the side walls is made up of

two panels separated by a pleat, wherein said panels comprise two pairs of jaws with two opposite cut-outs each, and the container is fastened by means of girded strap extending over length of overlapping panels with respect to the pleat.

[0012] Preferably, the spacing between two opposite cut-outs corresponds to the distance of double length of the pleat plus the width of the girded strap.

[0013] Preferably, the length of pleat confined by two fold lines, equals the sum of the distance between the first fold line and the cut-out of the corresponding jaw and the distance between the second fold line and the cut-out of the corresponding jaw, the sum being diminished by the width of the girded strap.

[0014] The purpose of the invention has also been achieved in a multiple-package sleeve container, designed for wrapping-up and carrying bunches of consumer packages, made up of a punched blank of pasteboard or the like, with two ends overlapped and glued together, which contains a top, two side walls with openings stabilising the package bunch being packed in position, and a bottom, the sleeve transversally girded with a strap, wherein the top is made up of two panels separated by a pleat, wherein said panels comprise two pairs of jaws with two opposite cut-outs each, and the container is fastened by means of girded strap extending over length of overlapping panels with respect to the pleat..

[0015] Preferably, the top and the bottom are provided with two pairs of notches.

[0016] Preferably, each of two pairs of the notches is suitably situated at half of the edge of the top and the bottom.

[0017] Preferably, each of the notches is provided with two jaws with two apposite cut-outs, and the spacing between said cut-outs corresponds to the width of the girding strap.

[0018] As distinguished from the known solutions, the sleeve container described in this invention is a variable-capacity container allowing to place the contents easily inside the slack sleeve container space with a subsequent compressing of its contents by folding-up two panels, making the latter to overlap, and locking their position with the girded strap. This operation is feasible owing to the natural rigidity of a pasteboard sheet, from which the multiple package sleeve container is made. The use of overlapping panels over a pleat renders the portion of the panels held by the strap more solid, enhancing thus the resistance and carrying safety of the container.

[0019] The clamping effect of the multiple-package sleeve container contents is enhanced by the openings that stabilize the pack being wrapped-up in position. The openings are regularly spaced in the container top or container side walls where, in conformity with the way the customer packages are arranged, their portions protruding beyond the compact solid of the pack, are lead outwards. As a result of this operation, the contents is prevented from being displaced relative to the container.

[0020] The girded strap used as a sleeve container locking element, the strap preferably of polypropylene, allows to increase the sleeve container capacity and load capacity above the strength properties of the pasteboard. The weight of the bunch of customer packages is held by a polypropylene strap of a high tensile strength which at the same time plays the role of a convenient grip.

[0021] Still another embodiment of the invention is the multiple-package sleeve container, which is locked with an easy-for-use lock in the form of a snap lock. The purpose of the invention has been achieved in the a multiple-package sleeve container designed for wrapping-up and carrying bunches of consumer packages, made up of a punched blank of cardboard or the like, with two ends overlapped and glued together, provided with openings stabilizing the package bunch being packed in position, with at least one pleat confined by two fold lines.

[0022] Preferably, the multiple-package sleeve container is provided with at least one hole with a lock edge. Preferably, the pleat is provided with a cut which forms the lock key with the base situated on the first fold line.

[0023] Preferably, the second fold line constitutes a symmetry axis for the lock edge and the base of the lock key.

[0024] Preferably, the width of the lock key as measured beyond its base is suitably wider than the width of the hole with the lock edge, while said base and said edge are equal.

BRIEF DESCRIPTION OF THE DRAWINGS

[0025] The subject of the invention is shown in the drawing, where fig. 1 depicts a punched pasteboard blank prepared to make the multiple-package bottle-pack sleeve container and, subsequently, the successive perspective views illustrate the embodiments of invention, where fig. 2 shows the multiple package bottle-pack sleeve container in a slack form, fig. 3 illustrates the same bottle-pack sleeve container but folded-up short, fig. 4 shows the multiple-package sleeve container packed with cans arranged in three rows and locked with a girded strap, while fig. 5 presents a simplified version of the multiple package sleeve container with a pleat and major lock elements which make up the snap lock.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0026] The multiple-package sleeve container in the embodiment of invention designed for wrapping-up and carrying bunch of bottles, is made up of a punched blank of pasteboard or the like (fig. 1), which contains the top 2 with regularly spaced openings 3, extends beyond two fold lines 4 by two side walls 5, wherein one of the side

walls 5 extends beyond the fold line 6 with the bottom 7, and the bottom 7 extends beyond the fold line 8 by means of a strip 9 which is fastened, with an adhesive, to the other side wall 5 of the pasteboard blank.

[0027] Each of the side walls 5 is made up of a panel 10, a pleat 11, and a panel 12, wherein the pleat 11 is separated from the panel 10 by a fold line 13 and from the panel 12 is separated by the fold line 14.

[0028] The panel 10 is suitably provided with two jaws 15 with cut-outs 16, and the panel 12 is suitably provided with two jaws 17 with cut-outs 18. The jaws 15 and 17, and the cut-outs 16 and 18, are symmetrically disposed along the edge 20 of the side wall 5 and positioned each to other in the distance of double length of the pleat 11 plus the width of the strap 22, as it is to be seen at the drawing of fig. 2.

[0029] As is depicted in the view of the multiple-package bottle-pack sleeve container being seen at the fig. 3, each of the pleats 11 is covered between the panels 10 and 12, partly overlapped with one another, wherein two pairs of jaws 15 and 17, with two opposite cut-outs 16 and 18 each, form suitably symmetrically disposed notches, into which the girded strap is being inserted.

[0030] The bottle-pack multiple-package sleeve container is stored in the form of a punched pasteboard blank folded in half along the fold lines 4 and 6 and fastened with an adhesive along the edges of the strip 9 and the corresponding side wall 5.

[0031] The bottle-pack multiple-package sleeve container is formed into a spatial structure by opening the fold angle along the fold lines 4 and 6 and by simultaneously closing the angle along the fold lines 4 and 8. Thus the multiple package sleeve container in the form a slack, yet rigid, band 1 is prepared for packaging bottles, the arranged bunch of which is placed on the bottom 7.

[0032] The sleeve container packed with bottles is closed by pressing each of the two pleats 11 against the panel 10 and subsequently by pressing the pleat 11 along with the panel 10 against the panel 12, whereby the panels 10 and 12, by partly overlapping with each other, form the side wall 5 diminished by a double length of the pleat 11.

[0033] Simultaneously, as the pleat 11 is being pressed down, the top 2 of the sleeve container is lowering and the necks of the bottles prepared for packing enter the openings 3, whereas the whole of the bunch of the bottles in the multiple-package sleeve container gets clamped from the top downwards.

[0034] The fmal stage of the packaging operation of the multiple-package sleeve container is the fastening of the container and the package bunch being packed in position with a girded strap, preferably a polypropylene strap, typically in an automatic machine that tensions the strap and welds its ends up. In the operation the strap is being inserted in the notches of the side walls 5, in the notches formed by a partially overlapping panels 10 and 12 relative to the pleat 11. The girded strap that wraps the multiple-package sleeve container performs as a lock that presses the panels 10 against the pleats 11, and the pleats 11 press against the panels 12, and the panels 12 press against the packed bunch of bottles, preventing the pasteboard sleeve from becoming slack. The girded strap, especially a polypropylene strap, owing to its mechanical properties, elasticity, inextensibility, and a high tensile strength, also performs as the multiple-package sleeve container grip, allowing the packed container to be safely moved from one place to another.

[0035] The multiple-package bottle-pack sleeve container can be easily open by tearing off the top 2 without a necessity of cutting the girded strap. It is these directions for opening the sleeve container that are of significance for a further use of the container which can be recycled along with the returnable bottles that can be more easily collected, stored and transported. Empty bottles can be put back to the same, yet open, sleeve container and returned to the sales point as compact bottle-pack provided with a safe grip. The new logistic strategy based on reuse of pasteboard multiple packs is vital to the protection of the environment. A commercial-scale production of these packages, which may well be used not only for transport of bottles but equally for cans and jars of various kinds, allows to eliminate the polyethylene skin packing and plastic crates, which are neither recyclable nor biodegradable.

[0036] Another embodiment of invention is a multiple-package sleeve container designed for wrapping-up and carrying bunches of beverage cans (fig. 4), made up of a punched blank of pasteboard in the form of sleeve 1, which contains a top 2 extending beyond two fold lines 4 as two side walls 5 provided with openings 3, wherein the side walls 5 extend beyond the fold lines 6 as a bottom 7. The top 2 is composed of two panels 10, 12 and the pleat 11, wherein the pleat 11 is separated from the panels 10, 12 by fold lines 13, 14. The panels 10 and 12 comprise two pairs of jaws 15, 17 with cut-outs 16, 18, each of which are symmetrically disposed along both edges 20 of the top 2 and positioned to each other in the distance of double length of the pleat 11 plus the width of the strap 22.

[0037] The multiple-package sleeve container shown in fig. 4, when packed with an arranged bunch of cans, clamped by covering the pleat 11 between panels 10 and 12, is fastening with a girded strap, preferably a polypropylene strap, inserted in the notches 21 of the top 2 and of the bottom 7. The notches 21 of the top 2 are formed by the partially superimposed panels 10 and 12 with respect to the pleat 11 and separated from the sides by two pairs of jaws 15, 17 with opposite cut-outs 16, 18, whereas the notches 21 in the edges of the bottom 7 are made by two pairs of jaws 15, 17 with opposite cut-outs 16, 18, wherein the spacing between said cut-outs correspond to the width of the girded strap 22.

[0038] The multiple-package sleeve container in the embodiment of invention described above finds appli-

cation in particular in packaging bunches of consumer packages grouped in rows in an arrangement that is crosswise relative to the pasteboard blank edges and parallel to the plane of girding the container with polypropylene strap. A particular embodiment of invention of the multiple-package sleeve container is a container where a three-row can bunch is wrapped up in a punched blank of pasteboard and girded with the strap. The forces favourably distributed inside the open on both sides container hold two outer rows of consumer packages by a pressure exerted on its side walls, thereby immobilising them in suitably shaped openings in these walls, which results from an outward pressure exerted by the middle row of the packages, effectively stopped by being banded with the strap. The stability of this arrangement is secured by the girded strap which is immobilised in the notches of the container, situated in the same plane and on the symmetry axis of the three-row bunch.

[0039] The narrow polypropylene strap used as a locking band for the sleeve container, allows to reduce, to a considerable degree, the cost of packaging of the can or bottle bunches into multiple packs, ready for quick sale straight from pallets. The three-row carrying sleeve container proves to be one of the most functional packages on the pasteboard multi-pack market. The multiple-package sleeve container according to the invention is a container of versatile uses suitable for both industrial big scale and a small handicraft scale of packaging.

[0040] Still another embodiment of invention is the multiple-package sleeve container fastened with snaps, rather than with a girded strap.

[0041] The multiple-package sleeve container (fig. 5), formed from a punched blank of cardboard or the like, two ends of which 29, 30 overlap and are fastened with an adhesive, contains at least one pleat 11, confined by the fold lines 13, 14, provided with a cut 24 which forms the lock key 25, the base of which 26 lies on the fold line 13, whereas the fold line 14 constitutes the symmetry axis for the positioning of this base 26 relative to the lock edge 27 coinciding with the edge of the hole 28.

[0042] The contents of the multiple-package sleeve container is clamped by reducing the sleeve container girth by folding-up the pleat 11 downwards along the fold lines 13, 14. Because of cardboard elasticity, the lock key 25 pops up from the blank along the cut 24 and, being moved towards the lock edge 27 along with the pleat 11 relative to the axis of rotation determined by the fold line 14, comes over the hole 28, through which it will be pushed inwards the sleeve container and folded inwards over said lock edge 27.

[0043] The snap lock thus formed constitutes a reliable and simple in use multiple-package sleeve container fastening. An added safety which prevents the snap lock from opening is accomplished by making the lock key of a greater size compared with the width of the hole 28. Once the multiple-package sleeve container is packed with a bunch of consumer packages and the pleat is folded-up, the whole of the multiple-package sleeve container can be quickly and effectively immobilized by pushing the locks in, either by hand or using an automatic fastening machine.

Claims

1. The multiple-package sleeve container made up of a punched blank of pasteboard or the like with two ends overlapped and glued together, transversally girded with a strap, contains a top (2) with openings (3) which stabilise the package bunch being packed in position, two side walls (5) and a bottom (7), **characterised in that** each of the side walls (5) is made up of two panels (10) and (12) separated by a pleat (11), wherein said panels comprise two pairs of jaws (15, 17) with two opposite cut-outs (16, 18) each, the container being fastened by means of girded strap (22) extending over the length of overlapping panels (10, 12) with respect to the pleat (11).

2. The multiple package sleeve container according to claim 1, **characterised in that** the spacing between two opposite cut-outs (16, 18) corresponds to the distance of double length of the pleat (11) plus the width of the girded strap (22).

3. The multiple package sleeve container according to claim 1, **characterised in that** the length of the pleat (11), confined by the fold lines (13, 14), equals the sum of the distance between the fold line (13) and the cut-out (16) of the jaw (15) and the distance between the fold line (14) and the cut-out (18) of the jaw (17), the sum being diminished by the width of the girded strap (22).

4. The multiple-package sleeve container made up of a punched blank of pasteboard or the like with two ends overlapped and glued together, transversally girded with a strap, contains a top (2), two side walls (5) with openings (3) which stabilise the package bunch being packed in position, and a bottom (7), **characterised in that** the top (2) is made up of two panels (10) and (12) separated by a pleat (11), wherein said panels comprise two pairs of jaws (15, 17) with two opposite cut-outs (16, 18) each, the container being fastened by means of girded strap (22) extending over the length of overlapping panels (10, 12) with respect to the pleat (11).

5. The multiple-package sleeve container according to claim 4, **characterised in that** the top (2) and the bottom (7) are provided with two pairs of notches (21).

6. The multiple-package sleeve container according

to claim 5, **characterised in that** each of two pairs of the notches (21) is suitably situated at half of the edge (20) of the top (2) and the bottom (7).

7. The multiple-package sleeve container according to claim 5, **characterised in that** each of the notches (21) is provided with two jaws (15, 17) with two opposite cut-outs (16, 18) and the spacing between said cut-outs corresponds to the width of the girding strap (22).

8. A multiple-package sleeve container designed for wrapping-up and carrying bunches of consumer packages, made up of a punched blank of cardboard or the like, with two ends (29, 30) overlapped and glued together, provided with openings (3) which stabilise the package bunch being packed in position, **characterised in that** contains at least one pleat (11) confined by two fold lines (13, 14).

9. The multiple-package sleeve container according to claim 8, **characterised in that** the pleat (11) is provided with at least one cut (24) which forms the lock key (25) with the base (26) situated on one fold line (13).

10. The multiple-package sleeve container according to claim 8, **characterised in that** is provided with at least one hole (28) with a lock edge (27).

11. The multiple-package sleeve container according to claim 8, **characterised in that** the other fold line (14) constitutes a symmetry axis for the lock edge (27) and the base (26) of the lock key (25).

12. The multiple-package sleeve container according to claim 8, **characterised in that** the width of the lock key (25) as measured beyond its base (26) is suitably wider than the width of the hole (28) with the lock edge (27), while said base (26) and said edge (27) are equal.

Patentansprüche

1. Mehrfachverpackungs-Schlauchbehälter, der aus einem gestanzten Pappkarton oder dgl. hergestellt ist, zwei überlappende und miteinander verklebte Enden aufweist und transversal mit einem Band umbunden ist, mit einer Oberseite (2), die Öffnungen (3) aufweist, die das in Lage verpackte Verpakkungspack stabilisieren, zwei Seitenwänden (5) und einem Boden (7), **dadurch gekennzeichnet, dass** jede Seitenwand (5) von zwei Feldern (10 und 12) gebildet wird, die durch eine Falte (11) getrennt sind, wobei die Felder zwei Paare von Schenkeln (15, 17) mit jeweils zwei entgegengesetzten Ausschnitten (16, 18) aufweist, wobei der Behälter mittels des umbundenen Bandes (22) festgelegt ist, das sich über die Länge der bezüglich der Falte (11) überlappenden Felder (10, 12) erstreckt.

2. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 1, **dadurch gekennzeichnet, dass** der Abstand zwischen zwei entgegengesetzten Ausschnitten (16, 18) dem Abstand der doppelten Länge der Falte (11) plus der Breite des umbundenen Bandes (22) entspricht.

3. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 1, **dadurch gekennzeichnet, dass** die Länge der Falte (11), die durch die Faltlinien (13, 14) begrenzt wird, der Summe des Abstandes zwischen der Faltlinie (13) und dem Ausschnitt (16) des Schenkels (15) und dem Abstand zwischen der Faltlinie (14) und dem Ausschnitt (18) des Schenkels (17) entspricht, wobei die Summe durch die Breite des umbundenen Bandes (22) vermindert wird.

4. Mehrfachverpackungs-Schlauchbehälter, der aus einem gestanzten Pappkarton oder dgl. hergestellt ist, zwei überlappende und miteinander verklebte Enden aufweist und transversal mit einem Band umbunden ist, mit einer Oberseite (2), zwei Seitenwänden (5) die Öffnungen (3) aufweisen, die das in Lage verpackte Verpackungspack stabilisieren und einem Boden (7), **dadurch gekennzeichnet, dass** die Oberseite von zwei Feldern (10) und (12) gebildet wird, die durch eine Falte (11) getrennt sind, wobei die Felder zwei Paare von Schenkeln (15, 17) mit zwei entgegengesetzten Ausschnitten (16, 18) umfasst, wobei der Behälter mittels eines umbundenen Bandes (22) festgelegt ist, das sich bezüglich der Falte (11) über die Länge der überlappenden Felder (10, 12) erstreckt.

5. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 4, **dadurch gekennzeichnet, dass** die Oberseite (2) und der Boden (7) mit zwei Paaren von Ausnehmungen (21) versehen ist.

6. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 5, **dadurch gekennzeichnet, dass** jedes der zwei Paare von Ausnehmungen (21) zur Hälfte am Rand (20) der Oberseite (2) und des Bodens (7) geeignet angeordnet ist.

7. Mehrverpackungs-Schlauchbehälter nach Anspruch 5, **dadurch gekennzeichnet, dass** jede der Ausnehmungen (21) mit zwei Schenkeln (15, 17) mit zwei entgegengesetzten Ausschnitten (16, 18) versehen ist, und der Abstand zwischen den Ausschnitten der Breite des umbindenden Bandes (22) entspricht.

8. Mehrfachverpackungs-Schlauchbehälter, der zum Umwickeln und Tragen eines Packs von Verbraucherverpackungen ausgelegt ist, hergestellt aus einem gestanzten Kartonrohteil oder dgl., mit zwei überlappenden Enden (29, 30) die miteinander verklebt sind, wobei Öffnungen (3) vorgesehen sind, die das in Lage verpackte Verpackungspack stabilisieren, **dadurch gekennzeichnet, dass** wenigstens eine Falte (11) von zwei Faltlinien (13, 14) begrenzt wird.

9. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 8, **dadurch gekennzeichnet, dass** die Falte (11) mit wenigstens einer Einschneidung (24) versehen ist, die den Verschlusskeil (25) bildet, wobei die Basis (26) auf einer Faltlinie (13) liegt.

10. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 8, **dadurch gekennzeichnet, dass** er mit wenigstens einer Öffnung (28) mit einem Verschlussrand (27) versehen ist.

11. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 8, **dadurch gekennzeichnet, dass** die andere Faltlinie (14) eine Symmetrieachse für den Verschtussrand (27) und die Basis (26) des Verschlusskeiles (25) bildet.

12. Mehrfachverpackungs-Schlauchbehälter nach Anspruch 8, **dadurch gekennzeichnet, dass** die Breite des Verschlusskeils (25) über seiner Basis (26) gemessen entsprechend breiter ist, als die Breite der Öffnung (28) mit dem Verschlussrand (27), wobei die Basis (26) und der Rand (27) gleich sind.

Revendications

1. Boîte sous forme de manchon pour emballages en lot constituée d'une découpe perforée de carton contrecollé ou analogue comportant deux extrémités chevauchantes et collées l'une à l'autre, frettée transversalement à l'aide d'un feuillard, contenant un dessus (2) doté d'ouvertures (3) qui stabilisent le paquet d'emballages, qui est emballé en position, deux parois latérales (5) et un dessous (7), **caractérisée en ce que** chacune des parois latérales (5) est constituée de deux panneaux (10) et (12) séparés par un pli (11), dans laquelle lesdits panneaux comprennent deux paires de griffes (15, 17) comportant chacune deux incisions opposées (16, 18), la boîte étant fixée au moyen d'un feuillard fretté (22) s'étendant sur la longueur des panneaux chevauchants (10, 12) par rapport au pli (11).

2. Boîte sous forme de manchon pour emballages en lot selon la revendication 1, **caractérisée en ce que** l'espacement entre deux incisions opposées (16, 18) correspond à la distance de la double longueur du pli (11) plus la largeur du feuillard fretté (22).

3. Boîte sous forme de manchon pour emballages en lot selon la revendication 1, **caractérisée en ce que** la longueur du pli (11), délimitée par les lignes de pliage (13, 14), est égale à la somme de la distance entre la ligne de pliage (13) et l'incision (16) de la griffe (15) et de la distance entre la ligne de pliage (14) et l'incision (18) de la griffe (17), la somme étant diminuée de la largeur du feuillard fretté (22).

4. Boîte sous forme de manchon pour emballages en lot constituée d'une découpe perforée de carton contrecollé ou analogue comportant deux extrémités chevauchantes et collées l'une à l'autre, frettée transversalement à l'aide d'un feuillard, contenant un dessus (2), deux parois latérales (5) dotées d'ouvertures (3) qui stabilisent le paquet d'emballages, qui est emballé en position, et un dessous (7), **caractérisée en ce que** le dessus (2) est constitué de deux panneaux (10) et (12) séparés par un pli (11), dans laquelle lesdits panneaux comprennent deux paires de griffes (15, 17) comportant chacune deux incisions opposées (16, 18), la boîte étant fixée au moyen d'un feuillard fretté (22) s'étendant sur la longueur des panneaux chevauchants (10, 12) par rapport au pli (11).

5. Boîte sous forme de manchon pour emballages en lot selon la revendication 4, **caractérisée en ce que** le dessus (2) et le dessous (7) sont munis de deux paires d'encoches (21).

6. Boîte sous forme de manchon pour emballages en lot selon la revendication 5, **caractérisée** en ce chacune des deux paires d'encoches (21) est située de façon appropriée au milieu de l'arête (20) du dessus (2) et du dessous (7).

7. Boîte sous forme de manchon pour emballages en lot selon la revendication 5, **caractérisé en ce que** chacune des encoches (21) est munie de deux griffes (15, 17) dotées de deux incisions opposées (16, 18) et l'espacement entre lesdites incisions correspond à la largeur du feuillard de frettage (22).

8. Boîte sous forme de manchon pour emballages en lot conçue pour empaqueter et transporter des emballages prêts à la consommation, constituée d'une découpe perforée de carton contrecollé ou analogue, comportant deux extrémités (29, 30) chevauchantes et collées l'une à l'autre, munie d'ouvertures (3) qui stabilisent le paquet d'emballages qui est emballé en position, **caractérisé en ce qu'**elle contient au moins un pli (11) délimité par deux lignes de pliage (13, 14).

9. Boîte sous forme de manchon pour emballages en lot selon la revendication 8, **caractérisée en ce que** le pli (11) est muni d'au moins une entaille (24) qui forme la clavette de verrouillage (25), la base (26) étant située sur une ligne de pliage (13).

10. Boîte sous forme de manchon pour emballages en lot selon la revendication 8, **caractérisée en ce qu'**elle est munie d'au moins un trou (28) présentant un bord de verrouillage (27).

11. Boîte sous forme de manchon pour emballages en lot selon la revendication 8, **caractérisée en ce que** l'autre ligne de pliage (14) constitue un axe de symétrie pour le bord de verrouillage (27) et la base (26) de la clavette de verrouillage (25).

12. Boîte sous forme de manchon pour emballages en lot selon la revendication 8, **caractérisée en ce que** la largeur de la clavette de verrouillage (25) mesurée au-delà de sa base (26) est, de façon appropriée, plus large que la largeur du trou (28) présentant le bord de verrouillage (27), tandis que ladite base (26) et ledit bord (27) sont égaux.

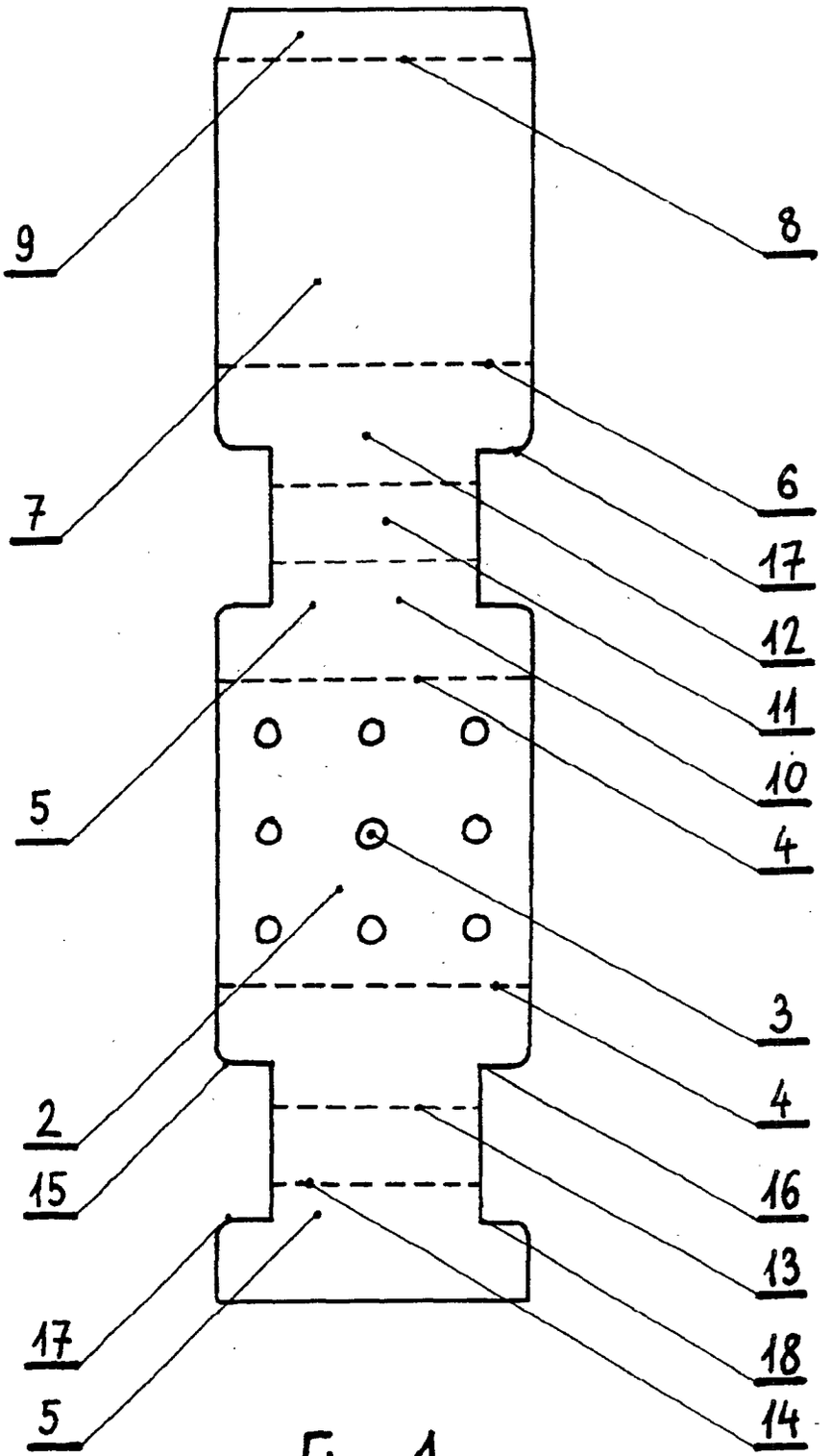


Fig. 1

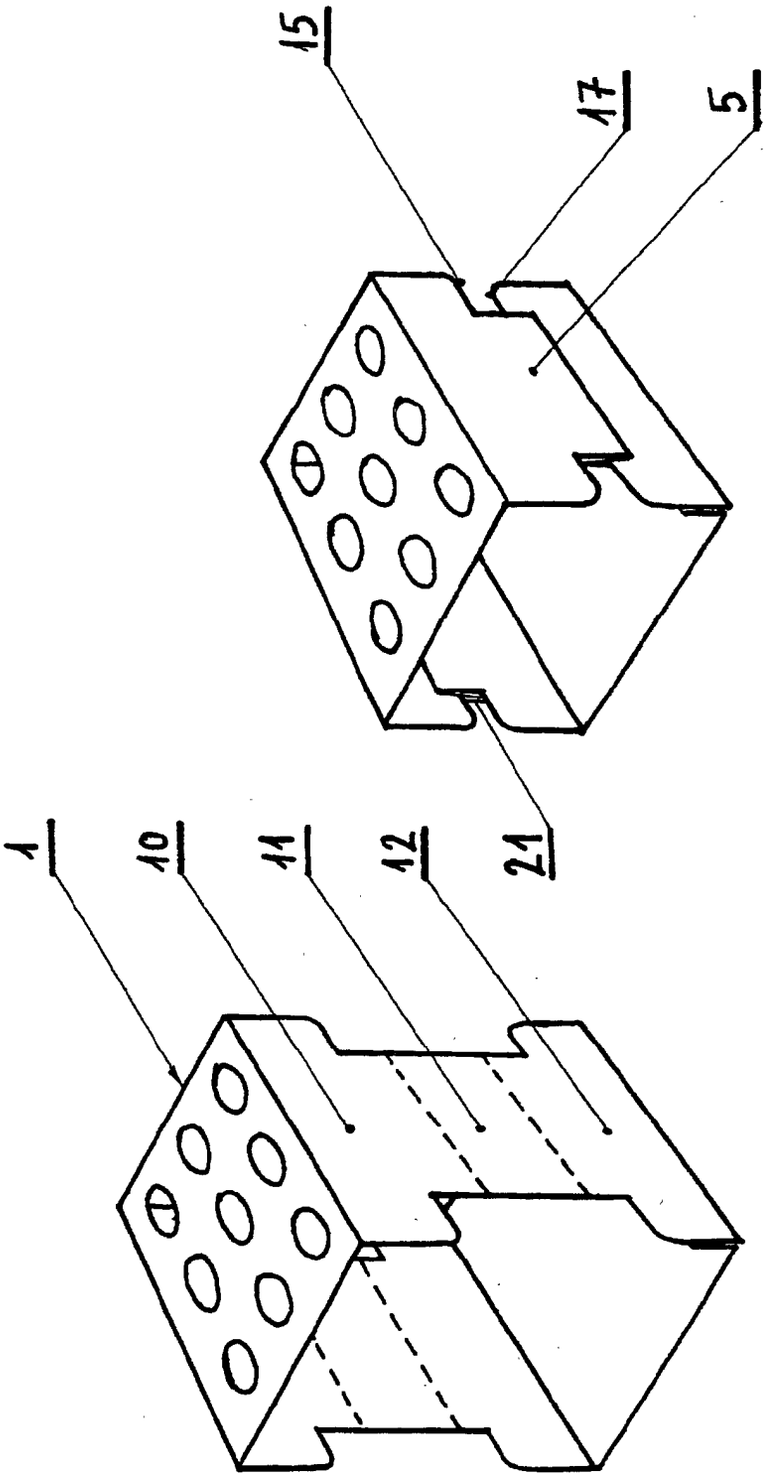


Fig. 3

Fig. 2

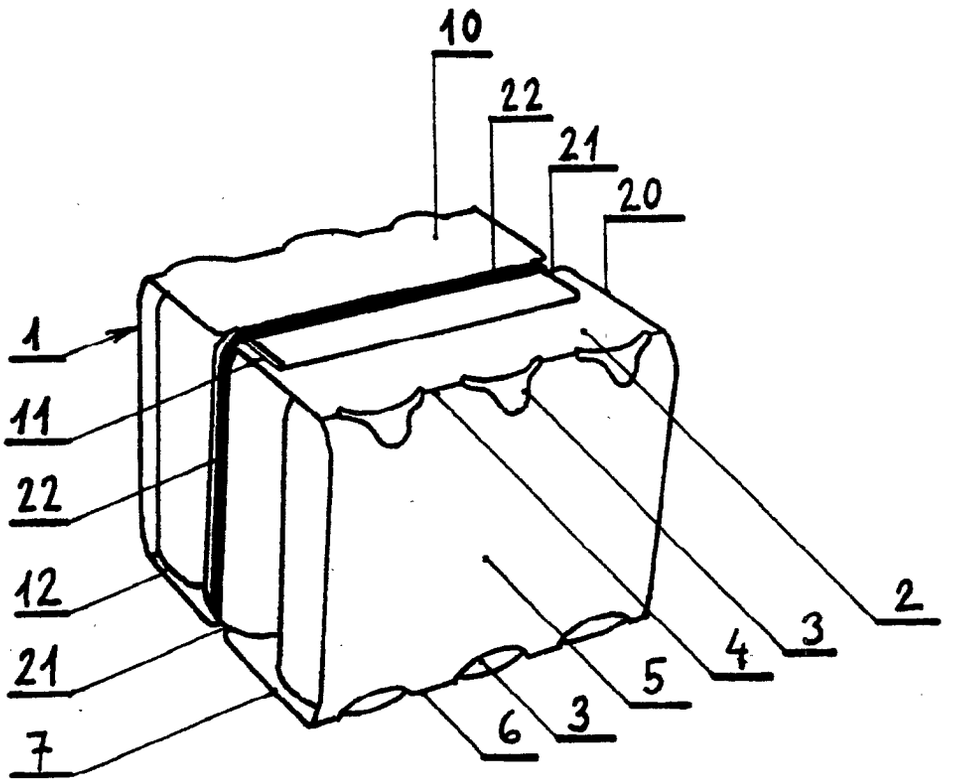


fig. 4

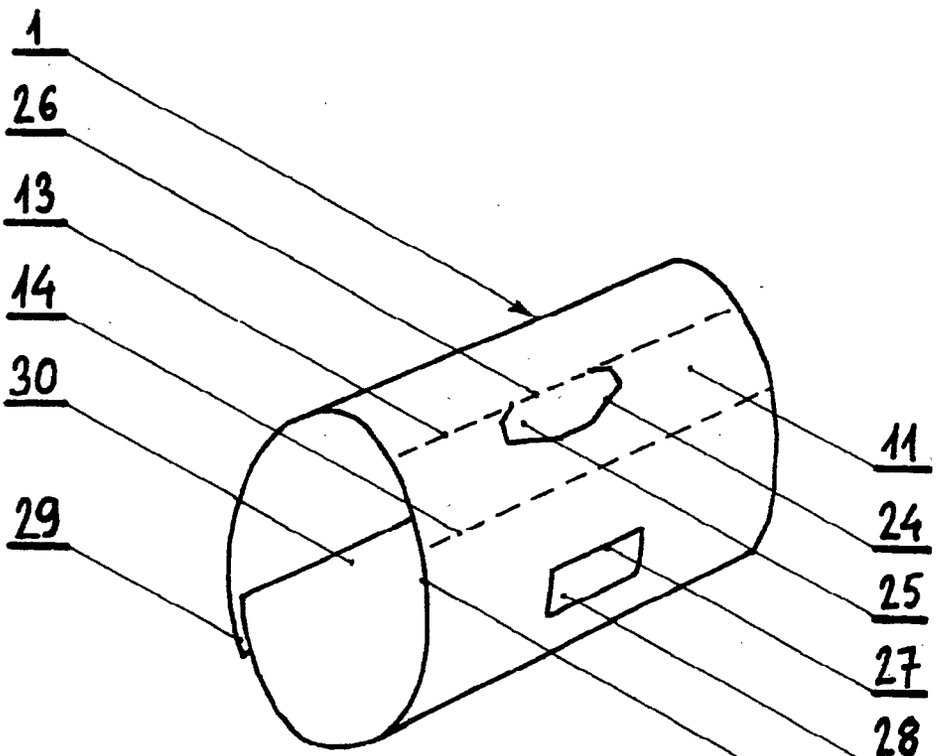


Fig. 5