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(54) **SYSTEM FOR THE LATERAL CLOSURE OF THE BODY OF A CONTAINER THAT IS MADE FROM A TRANSPARENT AND/OR TRANSLUCENT MATERIAL COMPRISING INK PRINTING ON THE INTERIOR AND/OR EXTERIOR OF THE LATERAL FACES THEREOF**

(57) The invention relates to a system for the lateral closure of the body of a container that is made from a transparent and/or translucent plastic material comprising ink printing on the interior and/or exterior of the lateral faces thereof, of the type that is made from a template that has been die-cut from said flexible material. According to the invention, two end flaps are provided at the ends of the template which defines the body of the container. The first flap is folded at 180° along a fold line onto

the adjacent portion of the template which defines the corresponding face of the container. The second flap is folded together with the adjacent face of the container at 180° along the corresponding fold line such that, when the first flap is folded together with the adjacent face at 180° in the direction of the second flap, said first flap is positioned in the free surface of the second flap and affixed thereto, for exaple with adhesive. In this way, the body of the container is closed and the flaps are positioned inside same.

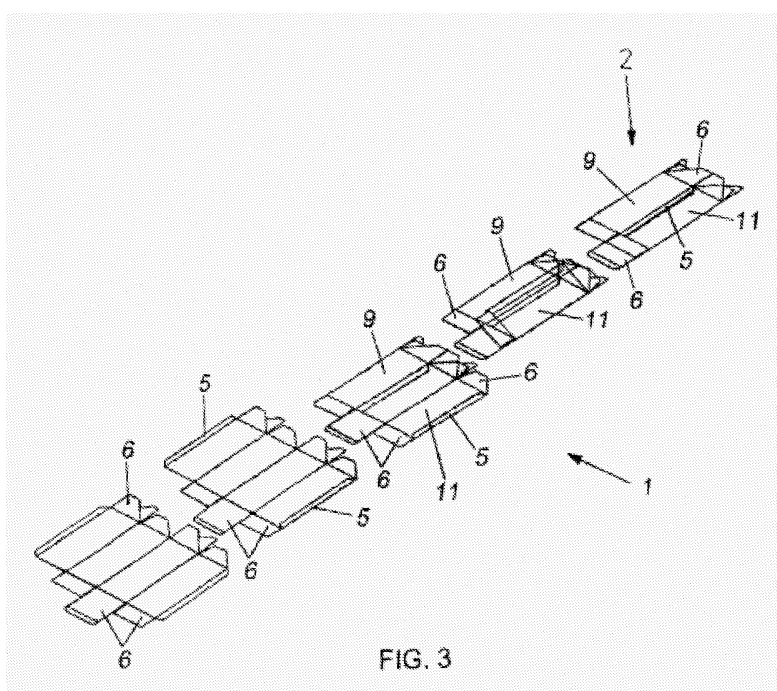


FIG. 3

Description

OBJECT OF THE INVENTION

[0001] The present invention aims at a lateral closing system for the body of a pack made from transparent and/or translucent material with ink printing on the inside or outside of its sides; especially packs made from a template die-cut in a material like that mentioned and with side flaps and/or end-closing parts, the aforementioned flaps and parts being delimited by folding lines to facilitate folding of the parts and flaps in the assembly and closure of the pack.

BACKGROUND OF THE INVENTION

[0002] Problems to laterally close the bodies of these types of packs currently exist when the whole surface has ink printing, since the flap, when it is stuck over the ink, leads the glue to destroying the ink, or the flap sticks badly.

[0003] Also, to solve this problem, the flap is normally stuck on the side or face where there is no print. This limits the possibilities of decorating the pack, adding another disadvantage.

[0004] To solve these disadvantages, the system of the invention has been designed, consisting of giving the template two opposing end flaps that, by sticking the template, the aforementioned flaps are joined with adhesive, heat, etc., whose join stays within the body of the pack itself, enabling printing to be carried out both inside and outside the pack, whatever its type, as long as it is embodied in transparent or translucent plastic, since the double flap or overlap has the advantage of enabling ink printing both on the inner and outer faces of the pack without the adhesive affecting the printed ink.

DESCRIPTION OF THE INVENTION

[0005] The lateral closing system for the body of a pack made from transparent and/or translucent material is based on using, in a template die-cut in the aforementioned material, two end flaps defined by the corresponding folding lines, the same ones used to determine the sides of the body of the pack in the case of it being a polygonal prism.

[0006] The system implies placing the template on a horizontal plane and correctly folding it.

[0007] One of the end flaps is folded along its folding line on the part that forms the side corresponding to the body of the pack and glue is applied on the outer side of the aforementioned flap.

[0008] The flap that forms the respective side facing the adjacent part of the template is folded along the same folding line as the consecutive and therefore adjacent side, so that the folded side and flap stay spread over the aforementioned adjacent side so that, on folding the end side over the already folded flap, the overlapping of

the flaps and their joining by sticking together is produced.

[0009] This join, in just the same way as the corresponding folds have produced, creates a joining of the flaps towards the inside of the body of the pack.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010]

Figure 1 shows a template that represents a body of a pack with double flaps in accordance with the invention.

Figure 2 shows the sequential double-flap folding-sticking system.

Figure 3 shows the invention's double-flap sticking system applied to a pack with end closings, according to the invention.

DESCRIPTION OF A PRACTICAL EMBODIMENT OF THE INVENTION

[0011] The system 1 of the invention is applied to a pack 2 formed by a template 3 die-cut in a flexible material with cutting and folding lines that delimit parts 4 that are the sides of the pack and two outer flaps 5.

[0012] Other parts 6 that form the closing of the tops also appear in the template 3.

[0013] The system of the invention refers to the lateral closing of the body 7 of the pack shown in figures 1 and 2 and the pack itself, figure 3.

[0014] In the unfolded template position, the 180° fold of one of the flaps 5 is carried out along the folding line 8 and afterwards the folding of part 9 with the other flap 5 that remains on the part 10 adjacent to part 9.

Afterwards, the sticking of the flaps 5 is carried out, to do which, part 11, with flap 5 folded 180°, is folded along 180° along the folding line 12, both flaps, that stay joined together by means of adhesive, overlapping each other, just as shown in figures 2 and 3.

[0015] The stuck flaps remain inside the pack, that is later closed at both ends by means of parts 6 that make the ends or tops, once assembled.

[0016] By assembling the system in this way, it is possible to print both inside and outside the body of the pack in transparent and/or translucent plastic, without the adhesive used to laterally close the body of the pack affecting the printing ink.

Claims

1. -Lateral closing system for the body of a pack made from transparent and/or translucent plastic material with ink printing on the inside or outside of its sides; like those made from a template die-cut in a material like that mentioned and, with cutting and folding lines to form the side surfaces and end closings of the

pack, printed both inside and outside; **character-**
ised by the template ends forming the body of the
pack having two end flaps, each delimited by a fold-
ing line, both parallel to each other and parallel to
those forming the sides of the body of the pack; one 5
of these flaps is folded 180° over the aforementioned
folding line and remains on the adjacent part that
forms the corresponding side of the pack; whereas
the other flap, with the adjacent side of the pack, are 10
folded together 180° along the corresponding folding
line, the flap being positioned in such a way that, on
turning the other flap facing the adjacent side 180°
in the same direction, this latter flap overlaps and
sticks, as with adhesive on the free surface of the 15
other flap, thus closing the body of the pack and the
aforementioned flaps left inside.

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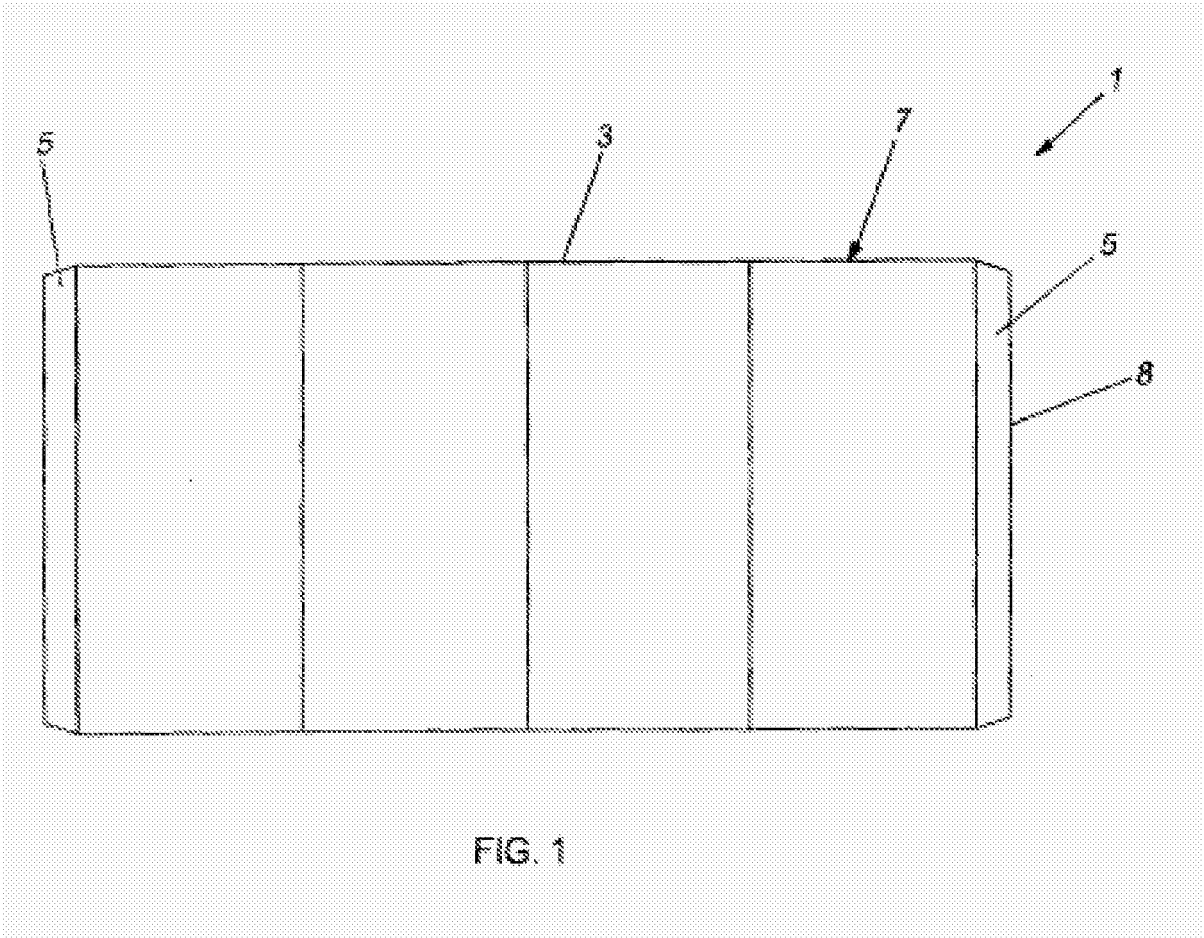
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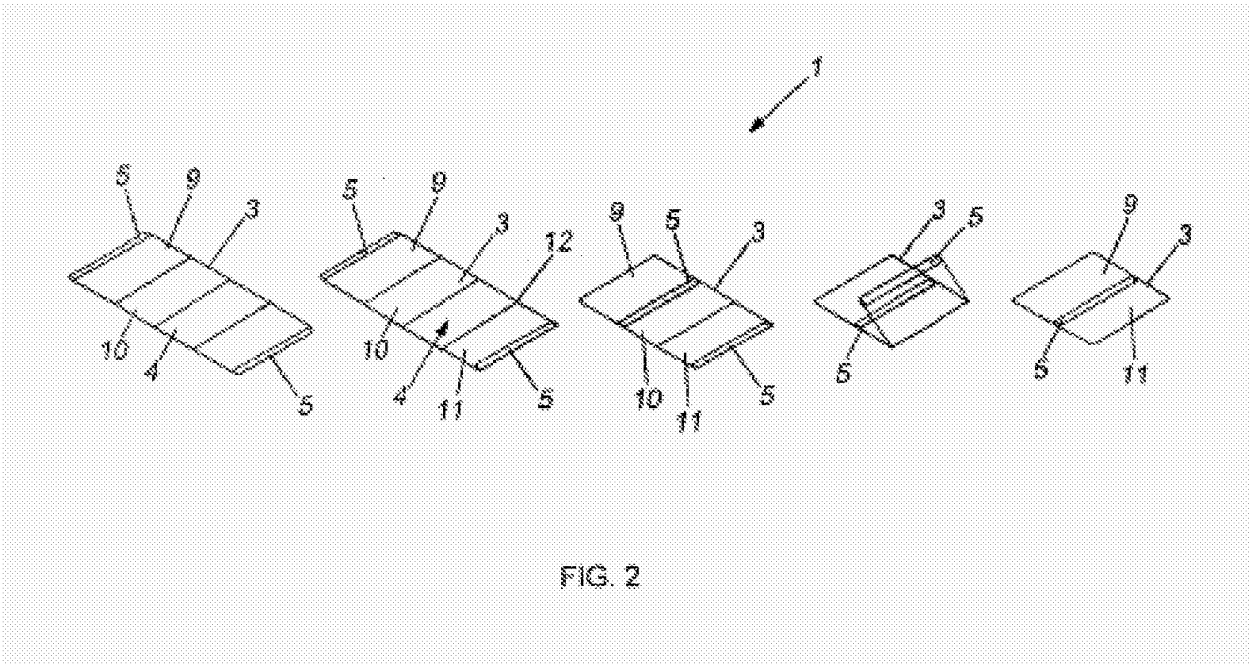
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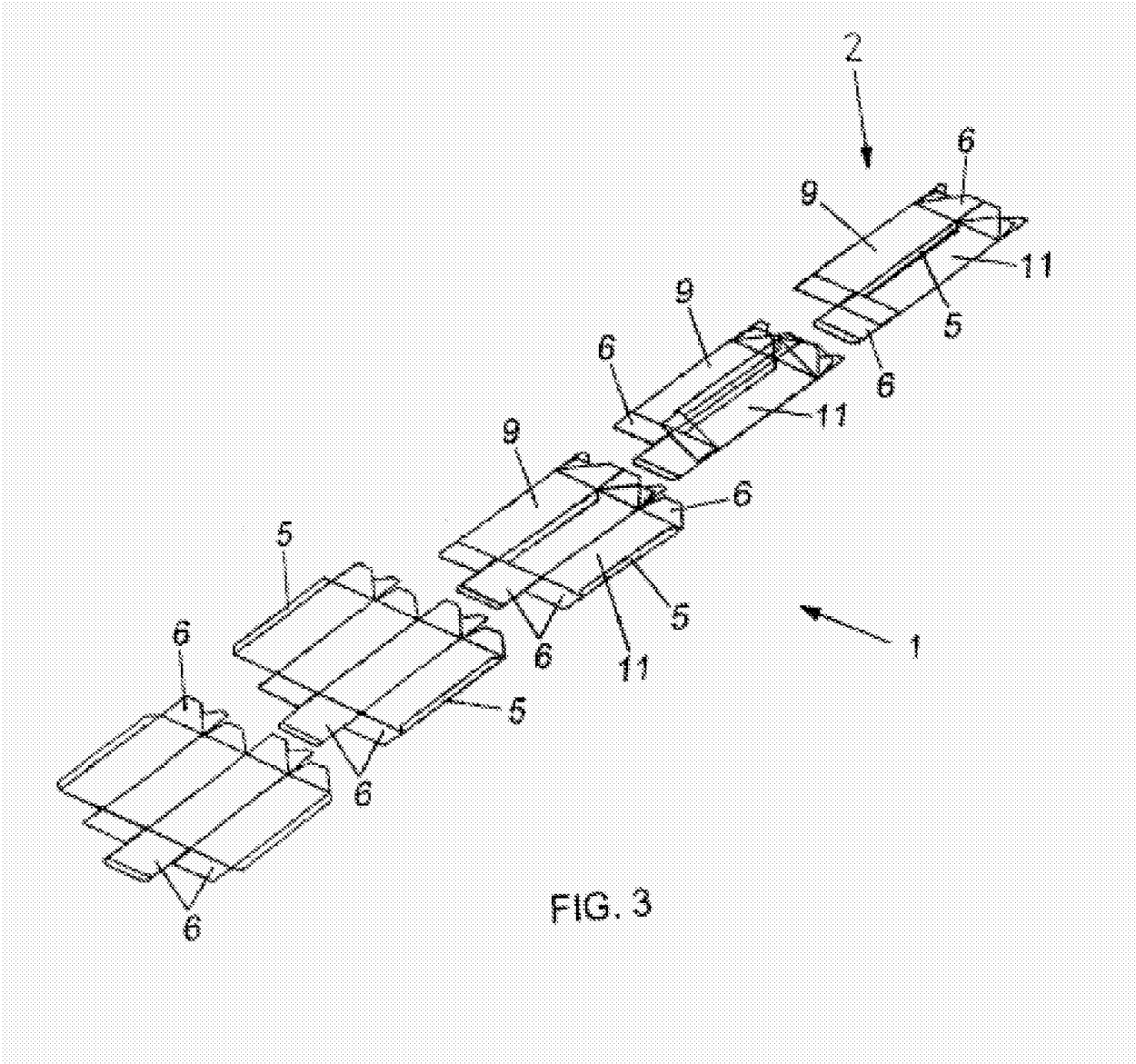
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES 2004/000530

A. CLASSIFICATION OF SUBJECT MATTER		
<i>B65D 5/02 (2006.01)</i>		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
B65D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
CIBEPAT, EPODOC, WPI, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2318568 A (SMITH PACKAGING, Ltd.) 29.04.1998, page 2, line 2 – page 3, line 11; figures	1
A	GB 2148253 A (DOLAN CORUGATED CONTAINERS, Ltd.) 30.05.1985, the whole document	1
A	FR 2178782 A (ALLARD) 16.11.1973, the whole document	1
A	US 4106615 A (HIROSHI) 15.08.1978, column 1, line 42 – column 2, line 26; figures	1
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
04 March 2005 (04.03.2005)		22 March 2005 (22.03.2005)
Name and mailing address of the ISA/		Authorized officer
Facsimile No.		Telephone No.

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/ ES 2004/000530

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