



(11) **EP 2 382 881 A1**

(12) **EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(43) Date of publication:
02.11.2011 Bulletin 2011/44

(51) Int Cl.:
A24F 15/12 (2006.01)

(21) Application number: **09829231.1**

(86) International application number:
PCT/KR2009/004807

(22) Date of filing: **28.08.2009**

(87) International publication number:
WO 2010/062024 (03.06.2010 Gazette 2010/22)

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL
PT RO SE SI SK SM TR**

(30) Priority: **26.11.2008 KR 20080117801**

(71) Applicant: **Song, Dae Seop**
Taebaek Gangwon-do 235-800 (KR)

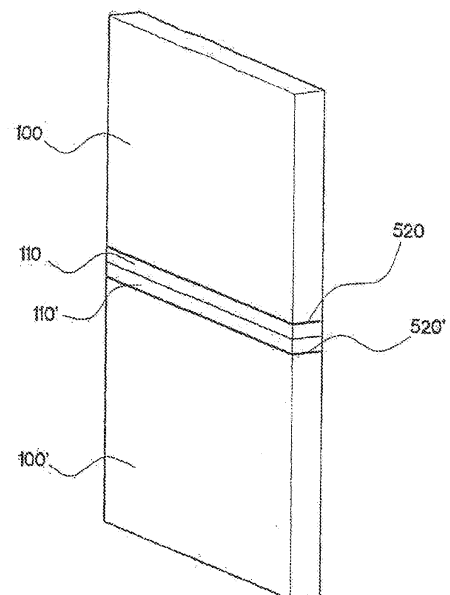
(72) Inventor: **Song, Dae Seop**
Taebaek Gangwon-do 235-800 (KR)

(74) Representative: **Rapisardi, Mariacristina**
Ufficio Brevetti Rapisardi S.r.l.
Via Serbelloni, 12
20122 Milano (IT)

(54) **SLIM TYPE DUAL CASE**

(57) Provided is a slim-type dual case including two slim cases. The two slim cases include upper hinged lids and pack-shaped main bodies. The two slim cases are connected to each other along a horizontal edge of upper surfaces of the hinged lids such that the two slim cases are folded along the horizontal edge to face each other or the two slim cases are unfolded along the horizontal edge to bring the upper surfaces of the hinged lids of the of the two slim cases into contact with each other According to the slim-type dual case of the present invention, the slim-type dual case has uniqueness when on display for sales with the slim cases forming a straight line shape. Also, the slim-type dual case augments advertising effect by utilizing side surfaces of the slim cases as advertising areas, and maintains freshness of contents in the slim case which is not opened yet by storing the contents separately. Further, by storing different types of contents separately in the cases divided by a vertical partition wall, the slim-type dual case allows two or more types of contents to be carried at the same time, and increases user convenience.

[Fig. 1]



Description

SKILL FIELD

[0001] Provided is a slim-type dual case including two slim cases. The two slim cases include upper hinged lids and pack-shaped main bodies. The two slim cases are connected to each other along a horizontal edge of upper surfaces of the hinged lids such that the two slim cases are folded along the horizontal edge to face each other or the two slim cases are unfolded along the horizontal edge to bring the upper surfaces of the hinged lids of the of the two slim cases into contact with each other.

BACKGROUND OF THE INVENTION

[0002] The present invention disclosed herein relates to a slim-type dual case, and more particularly, to a slim-type dual case including two slim cases. The two slim cases include upper hinged lids and pack-shaped main bodies, and the two slim cases are connected to each other along a horizontal edge of upper surfaces of the hinged lids such that the two slim cases are folded along the horizontal edge to face each other or the two cases are unfolded along the horizontal edge to bring the upper surfaces of the hinged lids of the of the two slim cases into contact with each other.

[0003] In general, filter cigarettes are sold in a paper pack with twenty cigarettes forming two rows in it. One of the most common types of cigarette packs is a pack with a hinged lid, also known as a hard pack, the shape of which is maintained effectively. An ordinary hard pack has a rectangular parallelepiped shape, is made of elastic and thick cardboard, and wrapped by an outside wrapper made of a transparent polypropylene film. Generally, a pack with a hinged lid includes two sheets of liners, one of which constitutes the body and the lid of the pack and the other of which, protruding upwards from the front and side surfaces of the pack, seals the space between the body and the lid when the lid is closed. Also, there are cases when cigarettes are sold in a soft pack. A soft pack is made of paper thinner than that used to make a hard pack, and opened when a part of the wrapper on the upper surface is removed. Although a soft pack may be more economical than a hard pack in terms of packing costs, the contents in a soft pack may be more vulnerable than those in a hard pack to external shocks. Like a hard pack, a soft pack goes through a polypropylene film wrapping process before being on display.

[0004] In most cases, coffee shops, karaokes, Internet cafes, bars or restaurants sell packs of cigarettes previously purchased from nearby retail stores or the Korea Tobacco and Ginseng Corporation when their customers ask for cigarettes. The advertising material on such a pack can maintain its advertising effect continuously until all of the cigarettes in it are smoked. At present, when a cigarette pack is used for advertising or promotion purposes, an advertising material is inserted between the

outer surface of the cigarette pack and the polypropylene film wrapping the pack, or, if the pack is a soft one, between the inside and outside wrappers as illustrated in Korean Unexamined Utility Model No. 1985-000785. Additionally, according to regulations by the Korea Tobacco and Ginseng Corporation, an advertising material may be printed on one surface of a cigarette pack.

[0005] However, in the aforementioned cases, the printed or inserted advertising material may be exposed to harm the appearance of the cigarette pack. At the same time, it may cause a person to feel repulsed or to question the quality of the cigarettes in the pack. Also, in some of the cases when an advertising material is inserted between the inside and outside wrappers, the advertising material may not be seen by a person who carries the pack until all of the cigarettes are smoked and the pack is thrown away. Meanwhile, once the wrapper of a cigarette pack is torn off, the tobacco flavor spreads outside and the flavor and the taste deteriorate with time, entailing a decrease in smoking satisfaction. To address the limitations, Korean Registered Utility Model No. 20-0243183 suggested a separable cigarette pack. The cigarette pack can be separated into two smaller cigarette packs, and advertisements can be printed on the surfaces of the smaller packs facing each other while advertising materials such as a leaflet can be inserted between the surfaces. Therefore, the advertisement or the advertising materials may not be exposed outwards, and the pack may be maintained neatly while effective in advertising. However, the separable cigarette pack has limitations in terms of advertising area utilization since the two smaller cigarette packs are connected to each other at an edge along the longitudinal direction. Further, since each of the two smaller cigarette packs, which carries cigarettes in two rows, has the same thickness as an ordinary cigarette pack, the separable cigarette pack becomes approximately twice thicker than an ordinary cigarette pack, making it inconvenient to carry the pack in a pocket. In addition, the advertising material inserted between the two smaller cigarette packs may be thrown away along with the outside wrapper when the wrapper is removed and the pack is opened, resulting in a decreased advertising effect. Also, since the separable cigarette pack is used only to carry cigarettes, contents other than cigarettes cannot be packed in it separately. In short, the separable cigarette pack is not much different from two ordinary cigarette packs with one stacked up on the other. As a result, it may discourage a cigarette buyer since expenses for two packs of cigarettes need to be paid at a time. In addition, the limitation that contents freshness is not guaranteed still remains with the separable cigarette pack.

SUMMARY OF THE INVENTION

[0006] The present invention provides a slim-type dual case different from an ordinary packing case having a rectangular parallelepiped shape. The slim-type dual

case may be folded to have approximately the same size and thickness as an ordinary packing case. Since side surfaces of the slim-type dual case may provide spaces to carry advertising materials, the slim-type dual case may have a wider advertising area than an ordinary packing case, and advertising effect may be increased. Nevertheless, the slim-type dual case may have approximately the same volume as an ordinary packing case. In addition, the slim-type dual case may further augment marketing effect by using the outside wrapper.

[0007] The present invention also provides a slim-type dual case which may prevent contents freshness from dropping sharply after the slim-type dual case is opened since contents are packed separately in each of slim cases constituting the slim-type dual case. Therefore, the slim-type dual case may keep the contents fresh. Furthermore, a punch hole line allows one of the slim cases to be torn off with ease after the contents in the slim case are used up. In this case, the thickness of the slim-type dual case may be about a half of a thickness of an ordinary cigarette pack. Therefore, the slim-type dual case may be carried or kept with ease.

[0008] The present invention also provides a slim-type dual case which may carry different types of contents. By carrying different types of contents at the same time in separated storage spaces, the slim-type dual case may satisfy a consumer's taste while contributing to his or her health. Therefore, the slim-type dual case may suit consumers' various needs.

[0009] According to an exemplary embodiment of the present invention, a slim-type dual case includes two slim cases, and the two slim cases include upper hinged lids and pack-shaped main bodies. The two slim cases are connected to each other along a horizontal edge of upper surfaces of the hinged lids such that the two slim cases are folded along the horizontal edge to face each other or the two slim cases are unfolded along the horizontal edge to bring the upper surfaces of the hinged lids of the of the two slim cases into contact with each other. Therefore, when the slim-type dual case is on display for sales, the slim-type dual case which is a half thicker than an ordinary cigarette pack is on display in a straight line shape and wrapped in an outside wrapper so that the slim-type dual case is more easily noticed by consumers. Further, by providing side surfaces of the slim cases with enough spaces for advertising purposes, the slim-type dual case may augment advertising and marketing effects. Meanwhile, unlike an ordinary cigarette pack carrying twenty cigarettes and opened at an upper portion of the pack, the outside, wrapper of the slim-type dual case may be torn off in a middle of the slim-type dual case in a straight line shape, and then each of the slim cases sealing and carrying ten cigarettes may be opened.

[0010] The horizontal edge may include a punch hole line which includes punch holes formed at a predetermined interval. The punch hole line is configured to separate the two slim cases with ease when contents in one

of the slim cases are used up, and to allow the slim-type dual case to be carried and kept more conveniently. Therefore, each of the slim cases may receive contents in a line along the horizontal edge.

[0011] At least one partition wall may be disposed in the slim case to divide a storage space vertically. The partition wall is configured to carry different types of contents in the slim case, and suit consumers' various needs. Further, in order for the different types of contents to be packed separately, the slim-type dual case may further include an inside wrapper configured to separately wrap the contents received by the slim case and divided by the partition wall into each of the divided storage spaces.

[0012] Meanwhile, in case the slim-type dual case is used as a cigarette pack and there is no lighter to light the cigarettes, the slim-type dual case may further include a match receiving part which is disposed in the hinged lid to receive a plurality of matchsticks. The match receiving part may have a polygonal box shape with an upper opening. In this case, the slim-type dual case may further include a friction material applied to portions of the upper surfaces of the hinged lids corresponding to each other when the slim-type dual case is unfolded to form a straight line shape so that fire may be made by striking one of the matchsticks against the friction material.

[0013] The slim-type dual case may further include a transparent outside wrapper configured to wrap outside surfaces of the slim cases tightly, and maintain the shape of the unfolded slim-type dual case. The outside wrapper may include a thread used to help open the case, and the thread may be disposed along the boundary between the slim cases that make contact with each other. In a case when the slim-type dual case further includes a single-coated sticker for advertising purposes attachable to a side surface portion of the outside wrapper corresponding to the boundary, the slim-type dual case may augment advertising and marketing effects.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0014] Hereinafter, it will be described about an exemplary embodiment of the present invention in conjunction with the accompanying drawings.

[0015] FIG. 1 is a general view illustrating a slim-type dual case having a straight line shape according to an embodiment of the present invention, and FIG. 2 illustrates the slim-type dual case to which a sticker is attached according to an embodiment of the present invention.

[0016] Referring to FIGS. 1 and 2, two slim cases 100 and 100' form a straight line shape. The slim case 100 includes a hinged lid 110 disposed in an upper portion of the slim case 100, and the slim case 100' includes a hinged lid 110' disposed in an upper portion of the slim case 100'. Contents disposed in the slim cases 100 and 100' may be taken out after removing seals along case

opening lines 520 and 520' and opening the hinged lids 110 and 110'. Initially, upper surfaces of the hinged lids 110 and 110' are in contact with each other. An additional opening line may be formed along a boundary between the slim cases 100 and 100' that make contact with each other so that an outside wrapper surrounding the entire area of the slim-type dual case can be torn off along the additional opening line. Here, a single-coated sticker 510 which is wide enough to carry advertisement may be attached along the opening line to improve advertising effect. Therefore, when the slim-type dual case of the present invention is put into use for the first time, the outside wrapper can be torn off only after the sticker 510 is removed, and thus the advertisement on the surface of the sticker 510 may be exposed while the sticker 510 is removed. In addition, the advertising and marketing effects can be further augmented when advertising materials are attached to all side surfaces of the slim cases and the side surfaces are shown in a straight line shape while the slim-type dual case is on display for sales.

[0017] FIG. 3 illustrates an outwardly folded state of the slim-type dual case according to an embodiment of the present invention.

[0018] The slim cases 100 and 100' are connected to each other along a horizontal edge of the hinged lid 110 and a horizontal edge of the hinged lid 110'. The horizontal edges include a plurality of punch holes forming a punch hole line 150, and the punch hole line 150 is configured to allow the slim cases 100 and 100' to be separated with ease. When the slim-type dual case is carried or put into a pocket after the sticker 510 and the outside wrapper are removed, the slim-type dual case may be folded outwards using the punch hole line 150 as a reference center folding line. Here, the thickness of the folded dual case may be approximately the same as the thickness of an ordinary cigarette pack since the thickness of each of the slim cases 100 and 100' is approximately halved compared with the thickness of an ordinary cigarette pack. Contents disposed in the slim cases 100 and 100' may be taken out after the hinged lids 110 and 110' are opened and the case opening lines 520 and 520' sealing main bodies of the slim cases 100 and 100' are removed. Further, a friction material 300 is applied to side portions of the upper surfaces of the hinged lids 110 and 110' for igniting a match by striking the match on the friction material 300.

[0019] FIG. 4 illustrates a match receiving part 400 disposed in the hinged lids 110 and 110' of the slim-type dual case according to an embodiment of the present invention.

[0020] The match receiving part 400 may have a polygonal box shape with an upper opening and may be disposed in the hinged lids 110 and 110'. For example, the match receiving part 400 may have a rectangular box shape as illustrated in FIG. 4. Here, two to three matchsticks 30 may be received by the match receiving part 400, and the match receiving part 400 may be received by a space disposed in the hinged lids 110 and 110'.

Since the matchsticks 30 are for contingencies, there is no need for the match receiving part 400 to carry a large number of matchsticks. Further, paper matchsticks may be disposed in the match receiving part 400 rather than ordinary wooden matchsticks so that the slim-type dual case can be lighter in weight.

[0021] FIG. 5 illustrates contents and an inside wrapper disposed separately in the slim-type dual case according to an embodiment of the present invention, and FIG. 6 illustrates a partition wall disposed in the slim-type dual case according to an embodiment of the present invention.

[0022] Contents such as cigarettes may be disposed in a line in the slim cases 100 and 100', and the slim cases 100 and 100' may include a vertical partition wall 180 so that each of the slim cases 100 and 100' can carry different contents separately. Types of contents carried by each of the slim cases 100 and 100' may vary depending on how the slim cases are adjusted. The contents may be cigarettes and relevant stuff. In a case when the slim-type dual case is used as a cigarette pack, cigarettes 10 may be stored in a line in a main storage space while stick-shaped or tube-shaped health food products 20 may be stored in an auxiliary storage space so that the cigarettes 10 and the health food products 20 can be used as occasion demands. Further, different inside wrappers may be used to separate storage spaces so that tastes and flavors of the contents in the storage spaces cannot be mixed with each other and the contents can be kept fresh. For example, a cigarette wrapper 530 may be used in the storage space for the cigarettes 10, and a health food wrapper 540 may be used in the storage space for the health food products 20. Then, the cigarettes 10 and the health food products 20 can be accommodated separately in the slim-type dual case.

[0023] FIG. 7 illustrates the slim-type dual case being used to strike a match according to an embodiment of the present invention.

[0024] Fire is made when one of the matchsticks 30 is struck against the friction material 300 applied to the side portions of the upper surfaces of the hinged lids 110 and 110'. Here, in a case when the slim cases 100 and 100' are connected to each other along the punch hole line 150, a matchstick 30 may be put between the slim cases 100 and 100' and then be yanked to ignite the matchstick by friction. In a case when one of the slim cases 100 and 100' is torn off, the matchstick may be struck against the frictional material 300 like the case of an ordinary matchstick.

[0025] The slim-type dual case of the present invention is different from an ordinary packing case having a rectangular parallelepiped shape. The slim-type dual case may be folded to have approximately the same size and thickness as an ordinary packing case. Since the side surfaces of the slim-type dual case may provide spaces to carry advertising materials, the slim-type dual case may have a wider advertising area than an ordinary packing case, and advertising effect may be increased. Nev-

ertheless, the slim-type dual case may have approximately the same volume as an ordinary packing case. In addition, the slim-type dual case may further augment marketing effect by using the outside wrapper.

[0026] Furthermore, the slim-type dual case may prevent contents freshness from dropping sharply after the slim-type dual case is opened since contents are packed separately in each of the slim cases. Therefore, the slim-type dual case may keep the contents fresh.

[0027] Furthermore, the punch hole line allows one of the slim cases to be torn off with ease after the contents in the slim case are used up. In this case, the thickness of the slim-type dual case may be about a half of a thickness of an ordinary cigarette pack. Therefore, the slim-type dual case may be carried or kept with ease.

[0028] Furthermore, unlike an ordinary cigarette pack configured only to carry cigarettes, the slim-type dual case may carry different types of contents, e.g., cigarettes and health food products. By carrying different types of contents at the same time in the separated storage spaces, the slim-type dual case may satisfy a consumer's taste while contributing to his or her health. Therefore, the slim-type dual case may suit consumers' various needs.

[0029] The above-disclosed subject matter is to be considered illustrative, and not restrictive, and the appended claims are intended to cover all such modifications, enhancements, and other embodiments, which fall within the true spirit and scope of the present invention. Thus, to the maximum extent allowed by law, the scope of the present invention is to be determined by the broadest permissible interpretation of the following claims and their equivalents, and shall not be restricted or limited by the foregoing detailed description.

BEEF DESCRIPTION OF THE DRAWINGS

[0030] The accompanying drawings are included to provide a further understanding of the present invention, and are incorporated in and constitute a part of this specification. The drawings illustrate exemplary embodiments of the present invention and, together with the description, serve to explain principles of the present invention. In the drawings:

[0031] FIG. 1 is a general view illustrating a slim-type dual case according to an embodiment of the present invention in a straight line shape;

[0032] FIG. 2 illustrates the slim-type dual case according to an embodiment of the present invention with a sticker further attached on an outside wrapper;

[0033] FIG. 3 illustrates the slim-type dual case according to an embodiment of the present invention folded outwards to have a folder shape;

[0034] FIG. 4 illustrates a match receiving part disposed in as hinged lid of she slim-type dual case according to an embodiment of the present invention;

[0035] FIG. 5 illustrates contents and an inside wrapper disposed separately in the shm-type dual case ac-

cording to an embodiment of the present invention;

[0036] FIG. 6 illustrates a partition wall disposed in the slim-type dual case according to an embodiment of the present invention; and

[0037] FIG. 7 illustrates the slim-type dual case according to an embodiment off the present invention being used to strike a match.

10 Claims

1. A slim-type dual case comprising two slim cases, wherein the two slim cases comprise upper hinged lids and pack-shaped main bodies, and the two slim cases are connected to each other along a horizontal edge of upper surfaces of the hinged lids such that the two slim cases are folded along the horizontal edge to face each other or the two slim cases are unfolded along the horizontal edge to bring the upper surfaces of the hinged lids of the of the two slim cases into contact with each other.
2. The slim-type dual case of claim 1, wherein each of the slim cases is configured to receive contents in a line along the horizontal edge.
3. The slim-type dual case of claim 2, wherein the horizontal edge comprises a punch hole line which comprises punch holes formed at a predetermined interval.
4. The slim-type dual case of claim 3, wherein at least one partition wall is disposed in the slim case to divide a storage space vertically.
5. The slim-type dual case of claim 4, further comprising an inside wrapper configured to separately wrap the contents received by the slim case and divided by the partition wall into each of the divided storage spaces.
6. The slim-type dual case of claim 1, further comprising a match receiving part which is disposed in the hinged lid to receive a plurality of matchsticks, the match receiving part having a polygonal box shape with an upper opening.
7. The slim-type dual case of claim 6, further comprising a friction material applied to portions of the upper surfaces of the hinged lids corresponding to each other when the slim-type dual case is unfolded to form a straight line shape so that fire is made by striking one of the matchsticks against the friction material.
8. The slim-type dual case of any one of claims 1 to 7, further comprising a transparent outside wrapper configured to wrap outside surfaces of the slim cases

tightly, and maintain the shape of the unfolded slim-type dual case.

9. The slim-type dual case of claim 8, further comprising a single-coated sticker for advertising purposes attachable to a side surface portion of the outside wrapper corresponding to a boundary between the slim cases that make contact with each other.

10

15

20

25

30

35

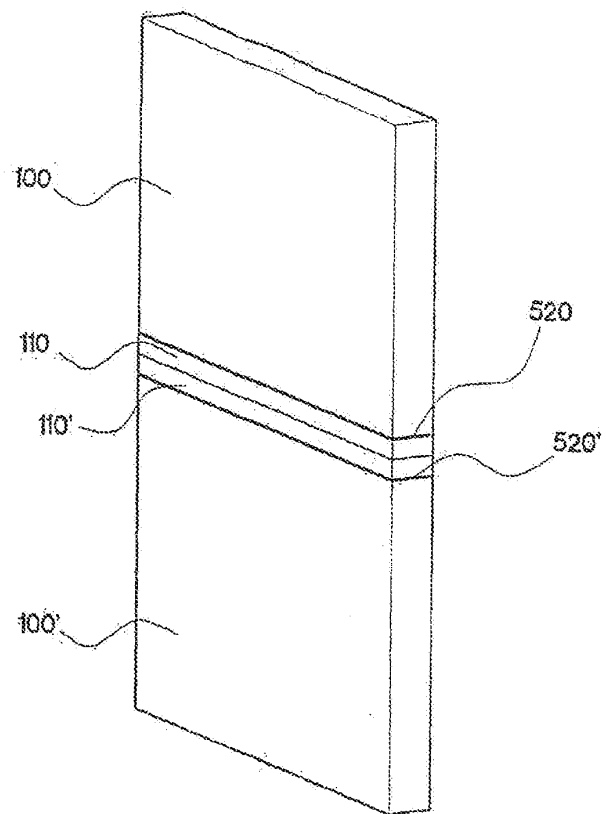
40

45

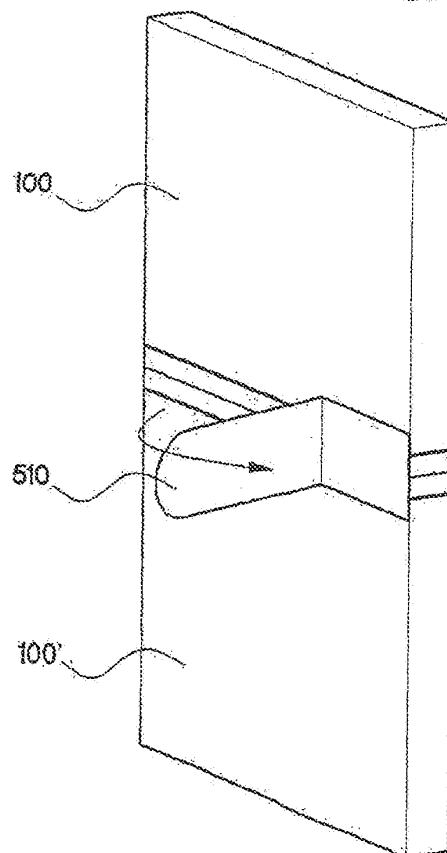
50

55

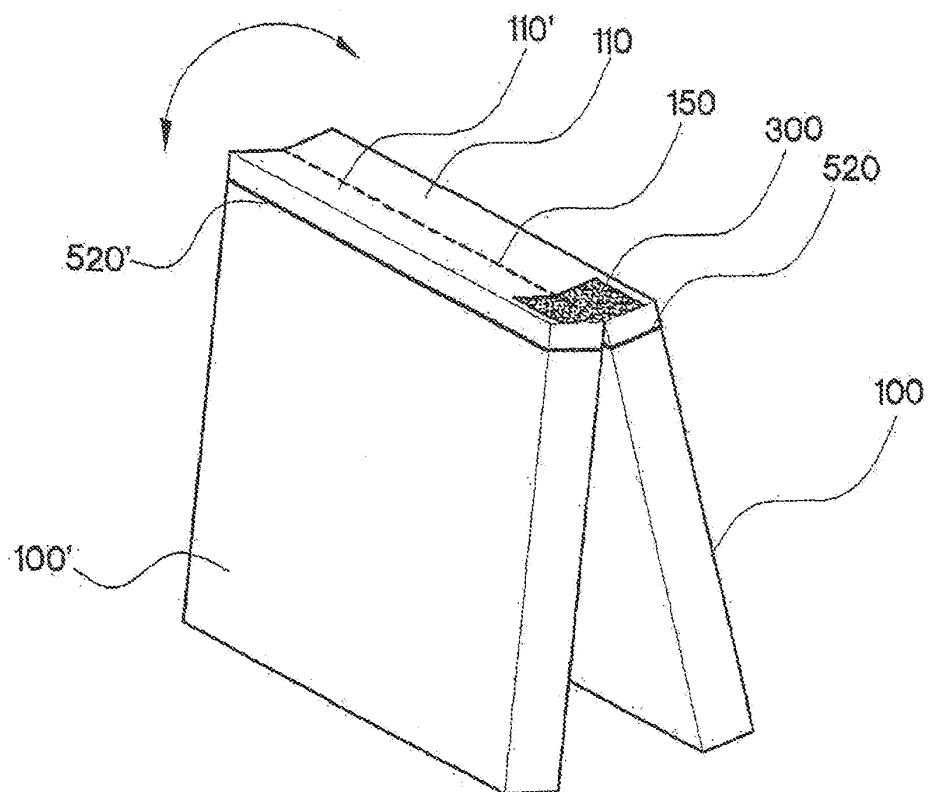
[Fig. 1]



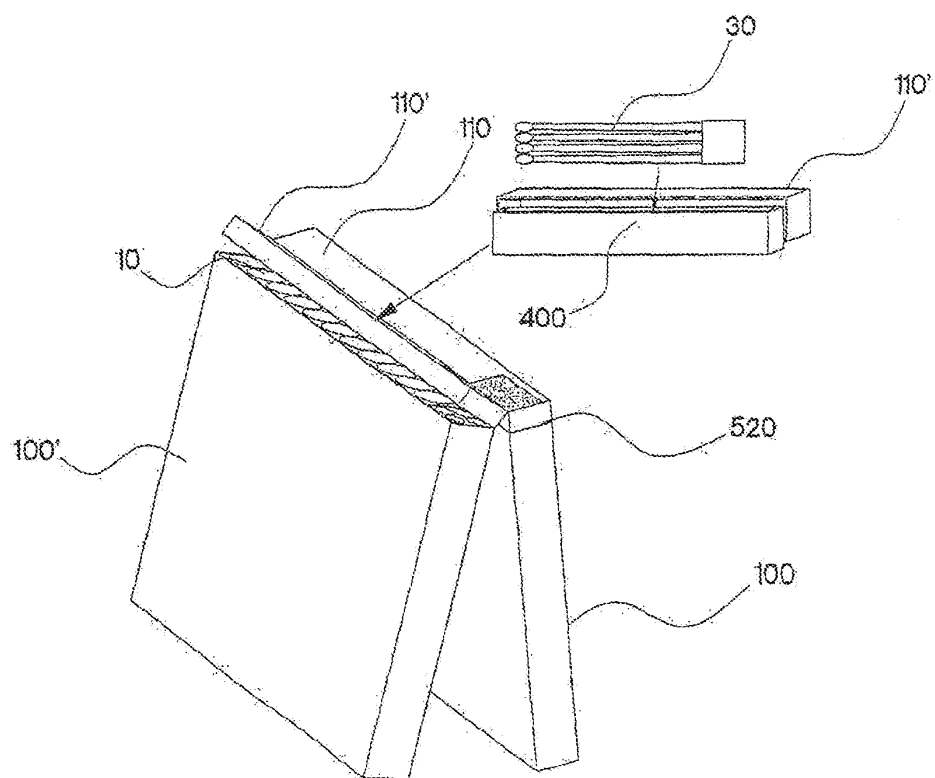
[Fig. 2]



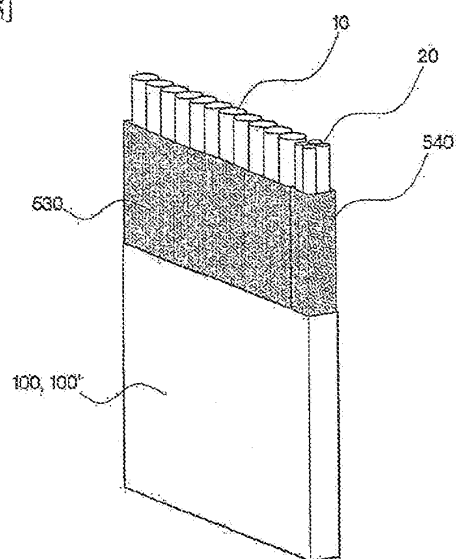
[Fig. 3]



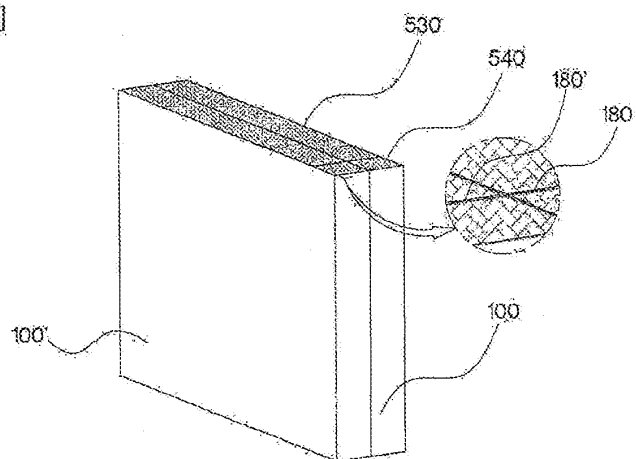
[Fig. 4]



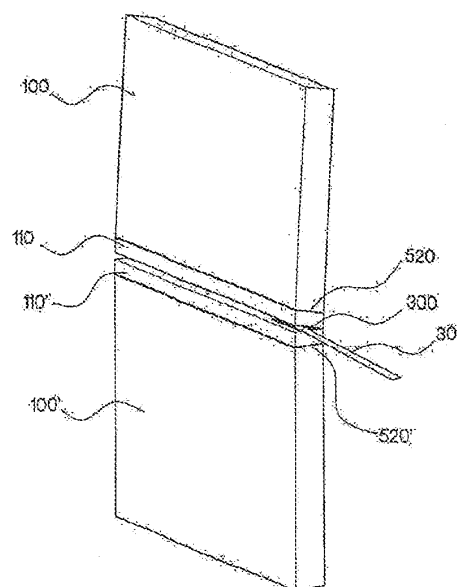
[Fig. 5]



[Fig. 6]



[Fig. 7]



INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2009/004807**A. CLASSIFICATION OF SUBJECT MATTER****A24F 15/12(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)

A24F 15/12; A24F 15/00; A24F 15/10; B65D 85/08; B65D 85/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models: IPC as above

Japanese Utility models and applications for Utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & Keywords: slim, dual, case

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1961316 A1 (PHILIP MORRIS PRODUCTS S.A.) 27 August 2008 See pages 2 - 3, claims 1 - 8, figures 1 - 3	1-9
A	US 4385689 A1 (OLAZABAL; ROMUALDO) 31 May 1983 See column 2, line 15 - column 3, line 27 and figures 1 - 6	1-9
A	WO 2007-080107 A1 (BRITISH AMERICAN TOBACCO FRANCE SAS et al.) 19 July 2007 See claims 1 - 6, figures 1 - 2	1-9
A	US 5845770 A1 (JAMES; ANTHONY G. et al.) 08 December 1998 See column 2, line 7 - column 2, line 64 and figures 1 - 2	1-9

☐ 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 application or patent 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

15 APRIL 2010 (15.04.2010)

Date of mailing of the international search report

16 APRIL 2010 (16.04.2010)

Name and mailing address of the ISA/KR


 Korean Intellectual Property Office
 Government Complex-Daejeon, 139 Seonsa-ro, Daejeon 302-701,
 Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2009/004807

Patent document cited in search report	Publication date	Patent family member	Publication date
EP 1961316 A1	27.08.2008	EP 2120617 A2	25.11.2009
		WO 2008-102272 A2	28.08.2008
		WO 2008-102272 A3	28.08.2008
		WO 2008-102272 A3	30.10.2008
		WO 2008-102272 A8	28.08.2008
		WO 2008-102272 A8	31.12.2008
US 4385689 A1	31.05.1983	US 4281761 A1	04.08.1981
		US 4579222 A1	01.04.1986
WO 2007-080107 A1	19.07.2007	EP 1971538 A1	24.09.2008
		EP 1971538 B1	19.08.2009
		FR 2895879 A1	13.07.2007
		FR 2895879 B1	04.04.2008
		WO 2007-080107 A1	19.07.2007
US 5845770 A1	08.12.1998	CN 1062525 C	28.02.2001
		CN 1158592 A	03.09.1997
		CN 1158592 C0	03.09.1997
		EP 0782534 A1	29.10.1997
		EP 0782534 A1	09.07.1997
		EP 0782534 B1	22.07.1998
		JP 03-260377 B2	14.12.2001
		JP 10-506599 A	30.06.1998
		KR 10-0424801 B1	26.06.2004
		WO 96-09230 A1	28.03.1996

REFERENCES CITED IN THE DESCRIPTION

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

Patent documents cited in the description

- KR 1985000785 [0004]
- KR 200243183 [0005]