



(86) Date de dépôt PCT/PCT Filing Date: 2006/01/11
(87) Date publication PCT/PCT Publication Date: 2006/07/20
(45) Date de délivrance/Issue Date: 2011/07/12
(85) Entrée phase nationale/National Entry: 2007/07/11
(86) N° demande PCT/PCT Application No.: JP 2006/300219
(87) N° publication PCT/PCT Publication No.: 2006/075622
(30) Priorité/Priority: 2005/01/14 (JP2005-007841)

(51) Cl.Int./Int.Cl. *B65D 5/54* (2006.01),
B65D 65/30 (2006.01), *B65D 75/62* (2006.01),
B65D 85/10 (2006.01)

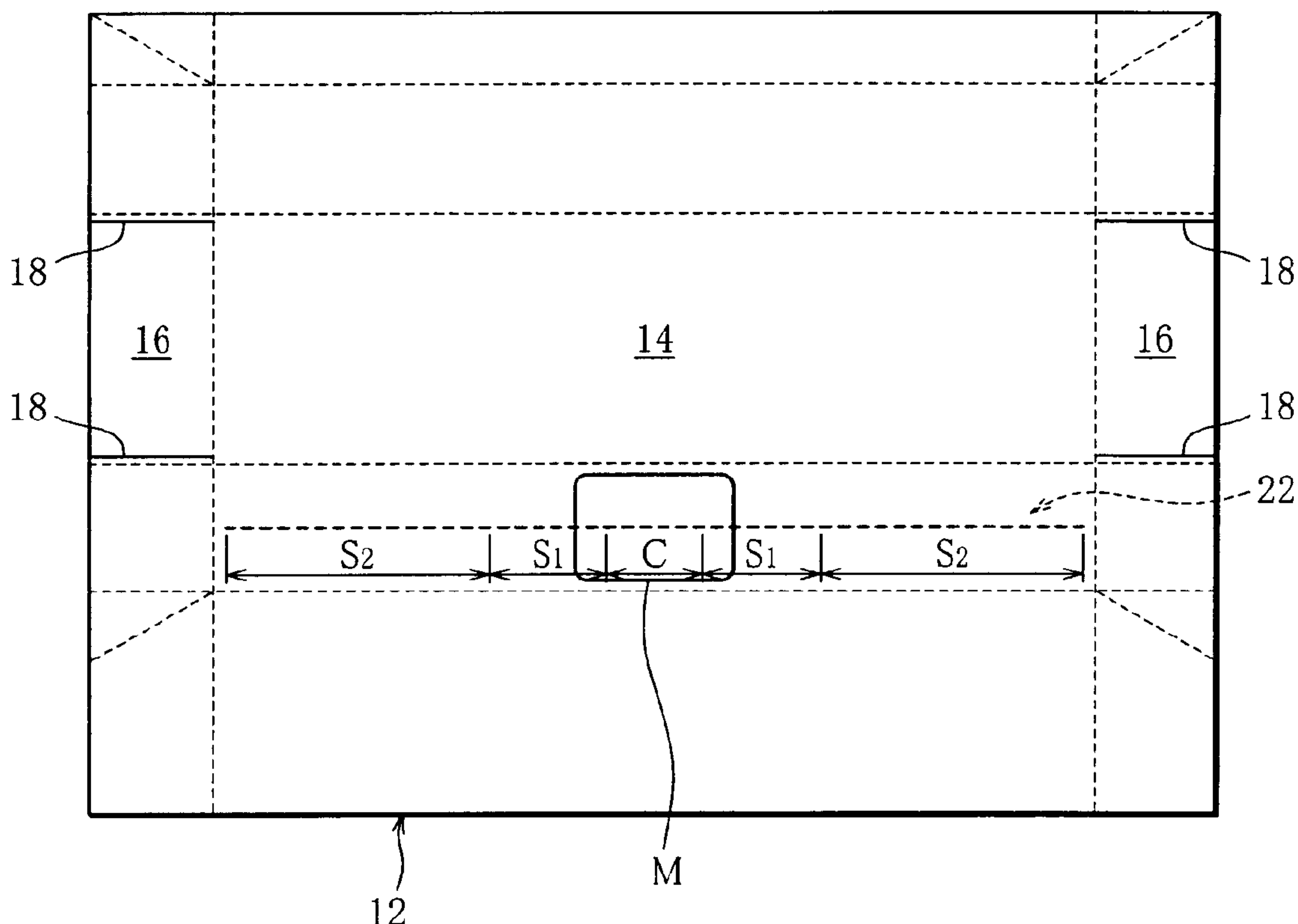
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(54) Titre : COLIS DE CIGARETTES COMPRENANT UN MATERIAU D'EMBALLAGE EN FORME DE FEUILLE
EMBALLANT LE GROUPE DE PAQUETS DE CIGARETTES

(54) Title: CIGARETTE PARCEL AND A SHEET-LIKE WRAPPING MATERIAL THEREFOR



(57) Abrégé/Abstract:

A cigarette parcel, comprising a sheet-like package material (12) packaging the group of cigarette packs. The package material (12) comprises a perforated row (22). On the side face of the cigarette parcel, the perforated row (22) extends in the longitudinal direction and comprises a center area (C) at its center. The center area (C) is formed as a fragile part which is breakable easier than the other areas of the perforated row.

(12) 特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2006 年 7 月 20 日 (20.07.2006)

PCT

(10) 国際公開番号
WO 2006/075622 A1

- (51) 国際特許分類:
B65D 5/54 (2006.01) B65D 75/62 (2006.01)
B65D 65/30 (2006.01) B65D 85/10 (2006.01)
- (21) 国際出願番号: PCT/JP2006/300219
- (22) 国際出願日: 2006 年 1 月 11 日 (11.01.2006)
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (30) 優先権データ:
特願2005-007841 2005 年 1 月 14 日 (14.01.2005) JP
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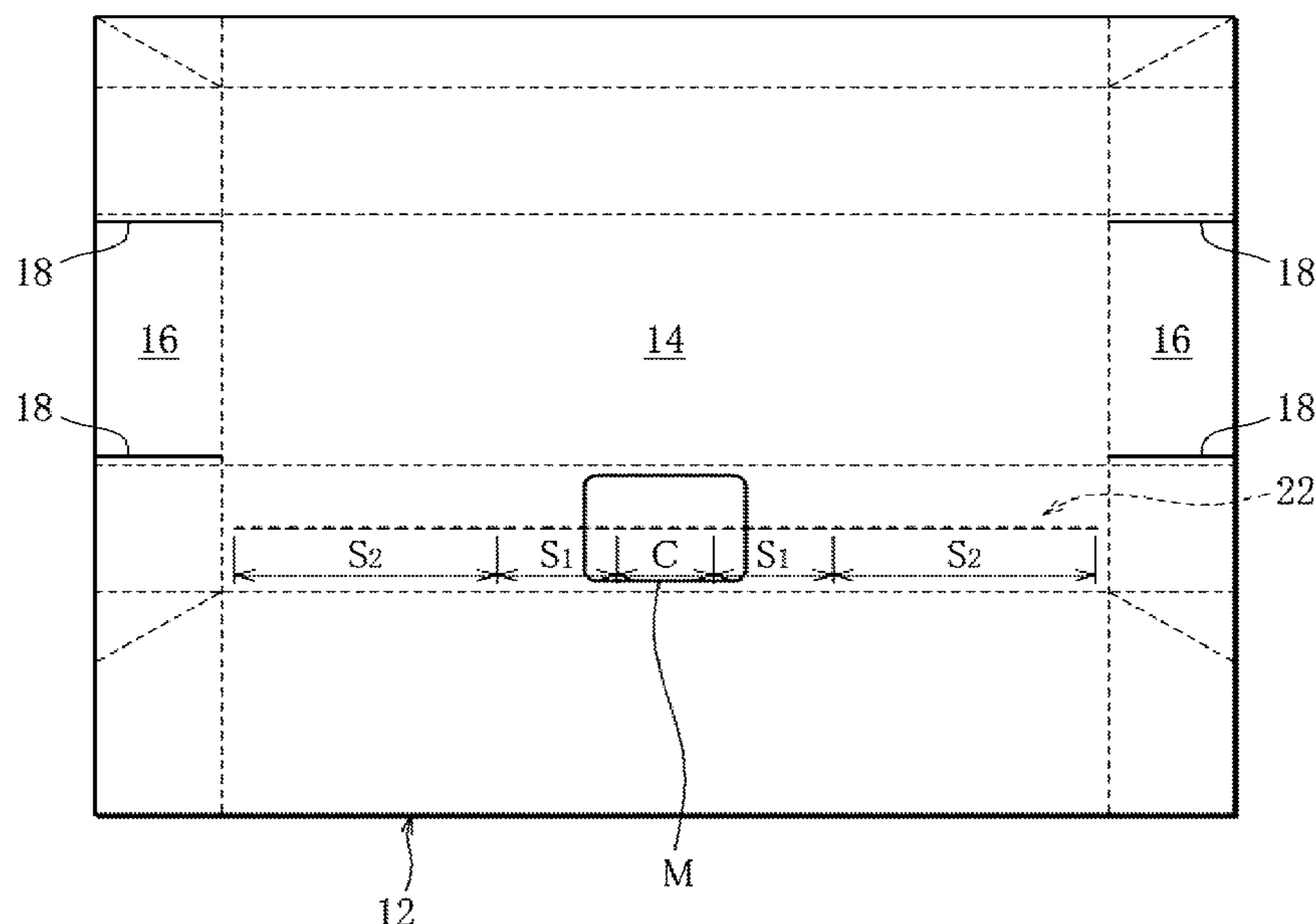
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- (84) 指定国 (表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG,

[続葉有]

(54) Title: CIGARETTE PARCEL AND SHEET-LIKE PACKAGE MATERIAL THEREFOR

(54) 発明の名称: シガレットパーセル及びそのシート状の包材



(57) Abstract: A cigarette parcel, comprising a sheet-like package material (12) packaging the group of cigarette packs. The package material (12) comprises a perforated row (22). On the side face of the cigarette parcel, the perforated row (22) extends in the longitudinal direction and comprises a center area (C) at its center. The center area (C) is formed as a fragile part which is breakable easier than the other areas of the perforated row.

[続葉有]

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CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR),
OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG).

2文字コード及び他の略語については、定期発行される
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のガイダンスノート」を参照。

添付公開書類：
— 国際調査報告書

(57) 要約： シガレットパーセルは、シガレットパックのグループを包み込むシート状の包材（12）を備えており、包材（12）は穿孔列（22）を含む。穿孔列（22）はシガレットパーセルの側面にその長手方向に沿って延び、その中央にセンタ域Cを有する。センタ域Cは、穿孔列の他の領域よりも破断し易い、脆弱部として形成されている。

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DESCRIPTION

CIGARETTE PARCEL AND A SHEET-LIKE WRAPPING MATERIAL
THEREFOR

5

Technical Field

The present invention relates to a cigarette parcel containing a group of cigarette packs of cigarettes or filter cigarettes, and to a sheet-like wrapping material
10 for wrapping the group.

Background Art

A cigarette parcel of this type is disclosed, for example, in Unexamined Japanese Patent Publication No. 10-230552. This well-known cigarette parcel includes a pack
15 group formed of a plurality of cigarette packs and a sheet-like wrapping material wrapping the pack group. The pack group includes packs arranged in a double row, and each row has five cigarette packs.

The cigarette parcel disclosed in the publication
20 includes a perforated line formed in the wrapping material. The perforated line is used to rip the wrapping material at the time of opening the cigarette parcel and removing the cigarette packs.

The perforated line has a large number of perforations.
25 These perforations are spaced at regular intervals in the longitudinal direction of the perforated line. The length of an intermediate portion between two adjacent perforations determines the breaking strength of the perforated line. When the pack group is wrapped in the
30 wrapping material, the perforated line is required to have a breaking strength that is high enough to withstand an external force applied to the wrapping material. For this reason, the perforated line has relatively high strength.

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When the cigarette parcel is to be opened, therefore, the user has to break the intermediate portions of the perforated line by pushing his/her nail in the intermediate portions, and then rip the wrapping material while moving
5 the nail along the perforated line.

However, there is a possibility that the nail-pushing damages each of the cigarette packs in the parcel. Especially if the cigarette packs are not overwrapped in a transparent film, the outer surfaces of the cigarette packs
10 easily get scratched by the nail directly touching them.

It is an object of the present invention to provide a cigarette parcel that does not incur a defect attributable to the ripping of a sheet-like wrapping material when the pack group is wrapped in the wrapping material, and allows
15 the wrapping material to be easily ripped later at the time of opening, and to provide a wrapping material for the pack group.

Disclosure of the Invention

Means to Solve the Problem

20 In order to achieve the above object, a cigarette parcel of the present invention comprises a pack group having a longitudinal axis, the pack group including a plurality of cigarette packs, and a sheet-like wrapping material wrapping the pack group.

25 The wrapping material of the cigarette parcel of the invention includes a perforated line extending along the longitudinal axis of the pack group. The perforated line has perforations spaced apart along the longitudinal axis and intermediate portions between the perforations. When
30 the total of lengths of each of the perforations and each of the intermediate portions along the longitudinal axis is expressed as a perforation pitch, the perforated line is further provided in a part thereof with a fragile area

lower than another portion of the perforated line with respect to a connection ratio of the intermediate portion to the perforation pitch.

Advantageously, the fragile area of the wrapping material is arranged in the center of the perforated line as viewed in a direction of the longitudinal axis of the perforated line, and the perforated line is provided in both sides of the fragile area with a plurality of areas of which the connection ratios sequentially grow higher with an increasing distance from the fragile area. Moreover, the wrapping material further includes a mark indicating the fragile area. This mark reliably makes the user aware of where to start ripping the perforated line when the cigarette parcel is to be opened.

10 When the cigarette parcel is to be opened, the wrapping material is first ripped from the fragile area of the perforated line. The ripping spreads the rest of areas of the perforated line, and the wrapping material is ripped along the perforated line. This makes it easy to remove each of the cigarette packs from the cigarette parcel.

 Since the wrapping material has the fragile area only in one part of the perforated line, the wrapping material is not ripped along the perforated line when the pack group is wrapped in the wrapping material.

20 The cigarette packs in the cigarette parcel may have outer surfaces in direct contact with the wrapping material.

 The invention also provides a sheet-like wrapping material having the above-mentioned perforated line.

Brief Description of the Drawings

 FIG. 1 is a perspective view showing a cigarette parcel according to an embodiment of the present invention;

 FIG. 2 is a developed view showing a sheet-like wrapping material of FIG. 1;

 FIG. 3 is a view showing a part of a perforated line

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of FIG. 2 in an enlarged view;

FIG. 4 is a sectional view of the cigarette parcel of FIG. 1; and

FIG. 5 is a view showing a part of a perforated line according to another embodiment.

Best Mode of Carrying out the Invention

FIG. 1 shows a cigarette parcel according to an embodiment of the present invention.

The cigarette parcel has a group of cigarette packs CP 10 and a sheet-like wrapping material 12 that wraps the group 10. The group 10 includes the packs arranged in upper and lower rows as viewed in FIG. 1. Each of the pack rows has five cigarette packs CP.

The wrapping material sheet 12 is made up, for example, of paper. FIG. 2 is a developed view of the wrapping material 12. A central portion 14 of the wrapping material 12 is wound around the pack group 10 into a shape of the letter U. Both side edge portions of the wrapping material 12 are then superimposed upon each other on an underside surface of the pack group 10 and bonded together with an adhesive. In other words, the wrapping material 12 is made into a shape of a tube surrounding the pack group 10. The tube-shaped wrapping material 12 has lugs protruding from both ends of the pack group 10. The lugs are formed of both end portions 16 of the wrapping material 12.

Thereafter, the lugs are folded against respective end faces of the pack group 10 to form closed faces that cover the end faces. Each of the closed faces has end flaps positioned at both ends thereof and side flaps that are sequentially superimposed upon the end flaps. The side flaps are bonded to each other with an adhesive. As a result, the pack group 10 is completely wrapped in the wrapping material 12, and the cigarette parcel is formed.

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Referring to FIG. 2, thin broken lines show fold lines that are formed by folding the wrapping material 12. The wrapping material 12 has a pair of slits 18 in each of the end portions 16. The slits 18 form upper side flaps 20 of the above-mentioned side flaps (see FIG. 1).

The wrapping material 12 has a perforated line 22, which is arranged in one of a pair of small lateral faces of the pack group 10. More specifically, the perforated line 22 is positioned in between the pack rows and extends in a longitudinal direction of the pack group 10, that is, in a direction of alignment of the cigarette packs CP in the pack rows. In FIG. 1, the perforated line 22 is shown by a broken line bolder than broken lines indicating outlines the cigarette packs CP.

As is apparent from FIG. 2, the perforated line 22 includes a central area C that is positioned in the center of the perforated line 22, and side areas S_1 and S_2 that are arranged in each side of the central area C. The side areas S_1 and S_2 are symmetrically positioned with respect to the central area C. As illustrated in FIG. 3, the perforated line 22 has a large number of perforations 26. The perforations 26 are spaced apart in the longitudinal direction of the perforated line 2. Intermediate portions interposed between the perforations 26 are denoted by reference numeral 24 in FIG 3.

Where length of each of the intermediate portions 24 and that of each of the perforations 26 along the longitudinal direction of the perforated line are represented by L and S, respectively, the total of the lengths of the intermediate portion 24 and the perforation 26 located adjacent to each other (L+S) equals a perforation pitch P.

A ratio of the length L of the intermediate portion 24

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to the perforation pitch P , namely a connection ratio R (L/P), differs from area to area of the perforated line 22. In the present embodiment, connection ratios R are determined as shown below.

5 Central area C :

$R_C=0.1$, perforation pitch $P=6$ mm, $L=0.6$ mm, and the number of pitches (the number of the intermediate portions 24) $N=5$

Side area S_1 :

10 $R_1=0.117$, perforation pitch $P=6$ mm, $L=0.7$ mm, and the number of pitches $N=6$

Side area S_2 :

$R_2=0.25$, perforation pitch $P=6$ mm, $L=1.5$ mm, the number of pitches $N=12$

15 Therefore, magnitude relation of the connection ratios R_C , R_1 , and R_2 of the central area C and of the side areas S_1 and S_2 are as follows:

$$R_C < R_1 < R_2$$

20 The connection ratio R_C of the central area C is lower than the connection ratios R_1 and R_2 of the side areas S_1 and S_2 , and the central area C forms a fragile area of the perforated line 22. Therefore, when the cigarette parcel is to be opened, connecting portions 24 of the central area C can be easily ripped simply by pulling portions of the wrapping material 12 which are located on both sides of the central area C of the perforated line 22 in opposite directions. The ripping in the central area C spreads the connecting portions 24 of the side S_1 and S_2 in order, so that the wrapping material 12 is thoroughly ripped along
25 the perforated line 22. Consequently, each of the cigarette packs CP can be removed from the cigarette parcel without difficulty.

30 Since the perforated line 22 has the central area C as

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a fragile area only in the center thereof, the wrapping material 12 is not ripped along the perforated line 22 when the pack group 10 is wrapped in the wrapping material 12.

5 The length of each of the intermediate portions 24 in the central area C and in the side areas S_1 and S_2 is very short. Therefore, it is not easy to visually recognize difference in size of the intermediate portions 24 of each of these areas. According to the present embodiment, however, the wrapping material 12 is provided beforehand
10 with a mark M surrounding the central area C as illustrated in FIGS. 1 and 2. If portions of the wrapping material 12 which are located on both sides of the perforated line 22 are pulled in opposite directions, using the mark M as a sign, the intermediate portions 24 of the central area C
15 are ripped without fail.

FIG. 4 more specifically shows the cigarette pack CP in the cigarette parcel. The cigarette pack CP may be a hinge-lid pack or soft pack that is overwrapped in a transparent film. The cigarette pack CP in the cigarette
20 parcel, however, is preferably a tongue-lid pack that is not overwrapped in the transparent film.

In the case of a tongue-lid pack of this type, a cigarette bundle is wrapped in a highly airtight inner wrapper, so that film packing is not necessary.

25 If the cigarette pack CB in the cigarette parcel is the tongue-lid pack, a user can easily rip the wrapping material 12 of the cigarette parcel without pushing the nail in the perforated line 22. It then prevents the outer surface of the tongue-lid pack from being scratched by the
30 user's nail.

The invention is not limited to the embodiment and may be modified in various ways.

For instance, the central area of the perforated line

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22 may be replaced with a central area C' shown in FIG. 5. In this case, the central area C' has a structure shown below.

Central area C' :

5 Connection ratio $R_{C'}=0.778$, perforation pitch $P=9$ mm, $L=0.7$ mm, and the number of pitches $N=3$

Needless to say, the connection ratio $R_{C'}$ of the central area C' is lower than the connection ratios R_1 and R_2 of the side areas S_1 and S_2 .

10 The side areas S_1 and S_2 may be integrated together in either of the side areas. Alternatively, another side area having a higher connection ratio may be provided outside of the side area S_2 .

WHAT IS CLAIMED IS:

1. A cigarette parcel comprising:

a pack group having a longitudinal axis, said pack group including a plurality of cigarette packs; and

a sheet-like wrapping material wrapping said pack group, wherein:

said wrapping material includes a perforated line extending along the longitudinal axis of said pack group;

the perforated line has perforations spaced apart long the longitudinal
10 axis and intermediate portions between the perforations;

the total of lengths of each of the perforations and each of the intermediate portions along the longitudinal axis is expressed as a perforation pitch, the perforated line being further provided in a part thereof with a fragile area lower than another portion of the perforated line with respect to connection ratio of the intermediate portion to the perforation pitch;

the fragile area is arranged in the center of the perforated line as viewed in a direction of the longitudinal axis;

the perforated line is provided in both sides of the fragile area with a plurality of areas of which the connection ratios sequentially grow higher with an
20 increasing distance from the fragile area; and

said wrapping material further includes a mark indicating the fragile area.

2. The cigarette parcel according to claim 1, wherein the cigarette pack has an outer surface in direct contact with said wrapping material.

3. The cigarette parcel according to claim 1 or 2, wherein said mark surrounds the fragile area.

4. A sheet-like wrapping material for wrapping a pack group including a plurality of cigarette packs and having a longitudinal axis, comprising:

a perforated line extending along the longitudinal axis of the pack group, wherein:

said perforated line including perforations spaced apart along the longitudinal axis and intermediate portions between the perforations;

the total of lengths of each of the perforations and each of the intermediate portions along the longitudinal axis is expressed as a perforation pitch, said perforated line being further provided in a part thereof with a fragile area lower than another portion of the perforated line with respect to a connection ratio of the intermediate portion to the perforation pitch;

10 the fragile area is arranged in the center of said perforated line as viewed in a direction of the longitudinal axis;

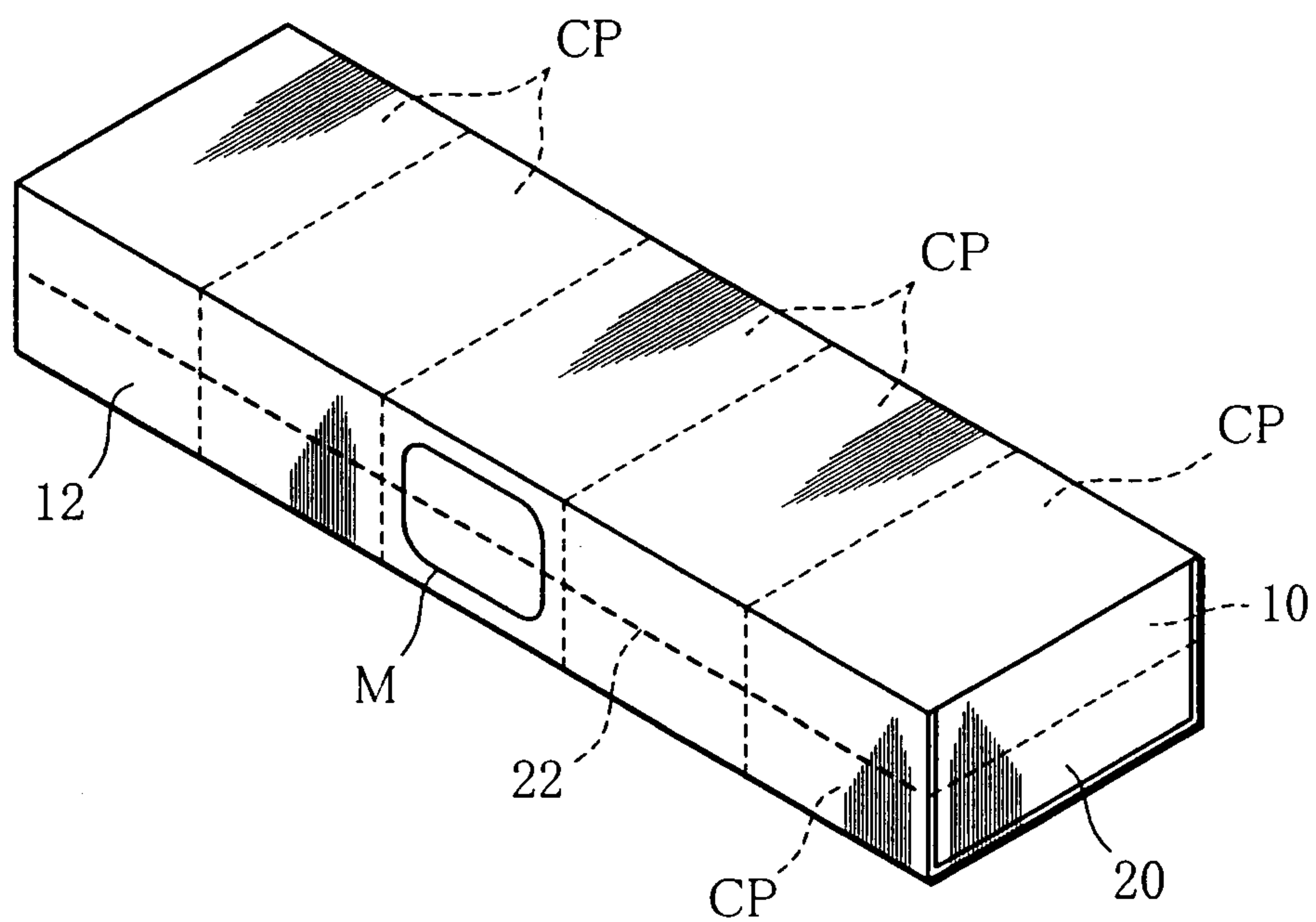
the perforated line is provided in both sides of the fragile area with a plurality of areas in which connection ratios sequentially grow higher with an increasing distance from the fragile area; and

said wrapping material further includes a mark indicating the fragile area.

5. The sheet-like wrapping material according to claim 4, wherein the mark surrounds the fragile area.

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FIG. 1



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FIG. 2

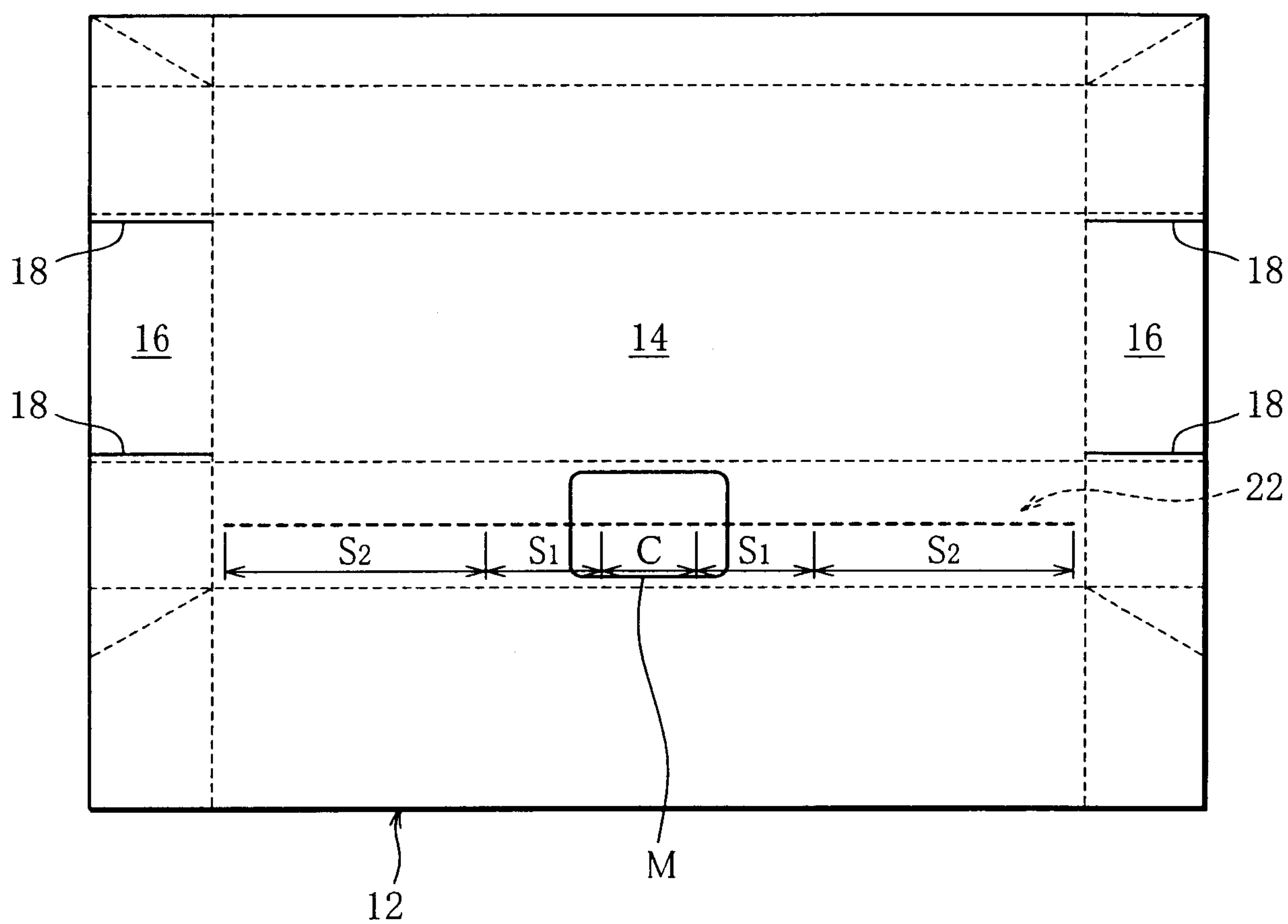
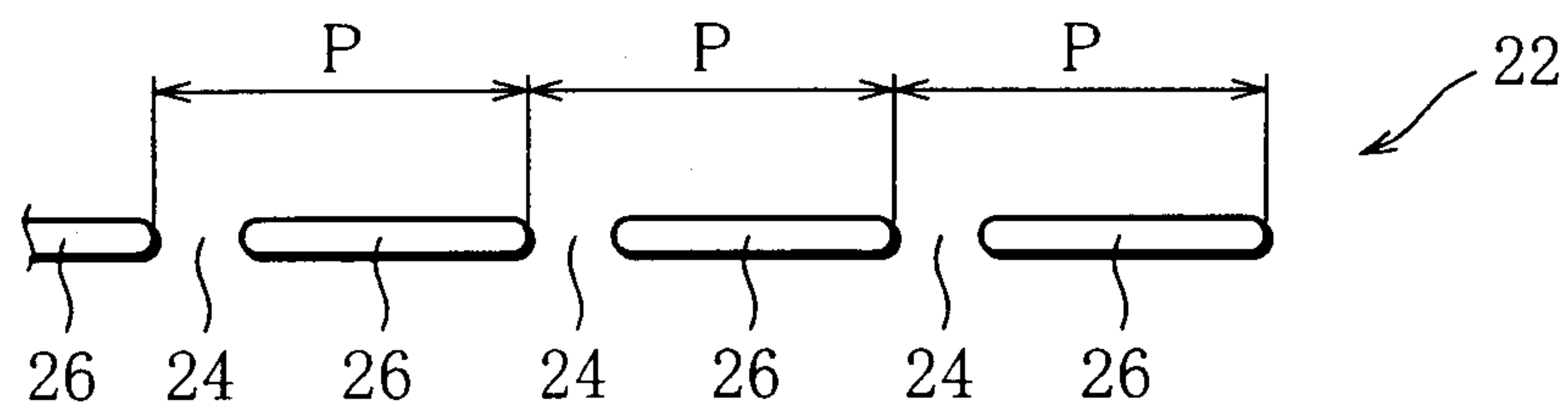


FIG. 3



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FIG. 4

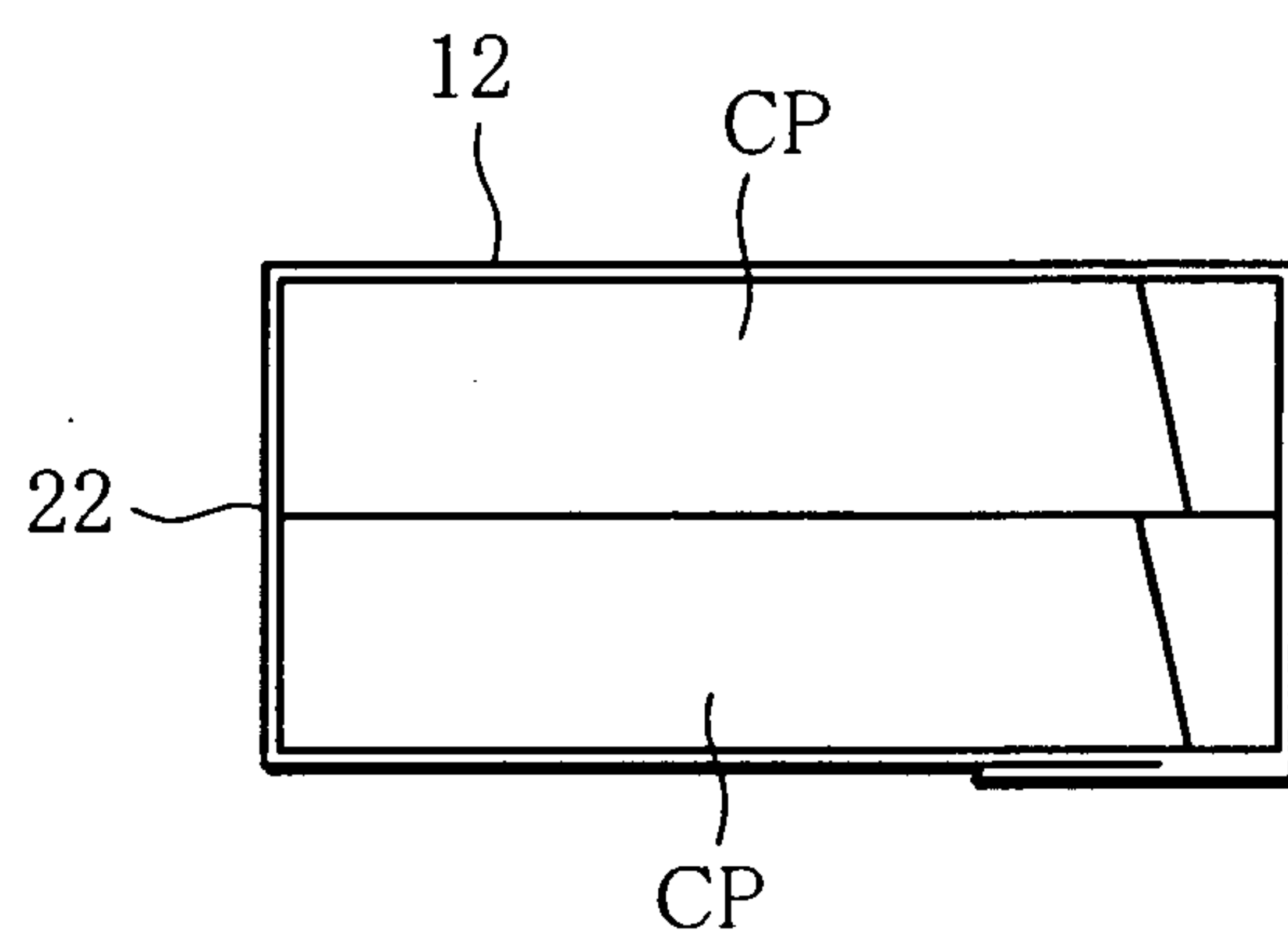


FIG. 5

