

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 70897-WOORD1	FOR FURTHER ACTION	See item 4 below
International application No. PCT/US2021/012410	International filing date (<i>day/month/year</i>) 07 January 2021 (07.01.2021)	Priority date (<i>day/month/year</i>) 07 January 2020 (07.01.2020)
International Patent Classification (IPC) or national classification and IPC See relevant information in Form PCT/ISA/237		
Applicant WESTROCK PACKAGING SYSTEMS, LLC		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> . I(a).																								
2.	This REPORT consists of a total of 15 sheets, including this cover sheet.																								
In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.																									
3.	This report contains indications relating to the following items: <table style="width: 100%; border: none;"> <tr> <td style="width: 10%; text-align: center;">☒</td> <td style="width: 30%;">Box No. I</td> <td style="width: 80%;">Basis of the report</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	☒	Box No. I	Basis of the report	☐	Box No. II	Priority	☒	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	☒	Box No. IV	Lack of unity of invention	☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement	☐	Box No. VI	Certain documents cited	☒	Box No. VII	Certain defects in the international application	☒	Box No. VIII	Certain observations on the international application
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4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44 <i>bis</i> .2).																								

	Date of issuance of this report 12 July 2022 (12.07.2022)
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PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/US2021/012410

International filing date (day/month/year)
07.01.2021

Priority date (day/month/year)
07.01.2020

International Patent Classification (IPC) or both national classification and IPC
INV. B65D71/18

Applicant
WESTROCK PACKAGING SYSTEMS, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☒ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA:



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Date of completion of
this opinion

see form
PCT/ISA/210

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Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed.
 - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
 - a. ☐ forming part of the international application as filed:
 - ☐ in the form of an Annex C/ST.25 text file.
 - ☐ on paper or in the form of an image file.
 - b. ☐ furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 - ☐ in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - ☐ on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of

☐ the entire international application

☒ claims Nos. 8-39

because:

☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (*specify*):

☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. are so unclear that no meaningful opinion could be formed (*specify*):

☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (*specify*):

☒ no international search report has been established for the whole application or for said claims Nos. 8-39

☐ a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:

☐ furnish a sequence listing in the form of an Annex C/ST.25 text file, and such listing was not available to the International Searching Authority in the form and manner acceptable to it; or the sequence listing furnished did not comply with the standard provided for in Annex C of the Administrative Instructions.

☐ furnish a sequence listing on paper or in the form of an image file complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in the form and manner acceptable to it; or the sequence listing furnished did not comply with the standard provided for in Annex C of the Administrative Instructions.

☐ pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13*ter*.1(a) or (b).

☐ See Supplemental Box for further details

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has, within the applicable time limit:
- ☐ paid additional fees
 - ☐ paid additional fees under protest and, where applicable, the protest fee
 - ☐ paid additional fees under protest but the applicable protest fee was not paid
 - ☒ not paid additional fees
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
- ☐ complied with
 - ☒ not complied with for the following reasons:
see separate sheet
4. Consequently, this report has been established in respect of the following parts of the international application:
- ☐ all parts.
 - ☒ the parts relating to claims Nos. 1-7

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement
- | | | |
|-------------------------------|-------------|------------|
| Novelty (N) | Yes: Claims | <u>1-3</u> |
| | No: Claims | <u>4-7</u> |
| Inventive step (IS) | Yes: Claims | <u>1-3</u> |
| | No: Claims | <u>4-7</u> |
| Industrial applicability (IA) | Yes: Claims | <u>1-7</u> |
| | No: Claims | |
2. Citations and explanations
- see separate sheet**

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item IV

Lack of unity of invention

This Authority considers that the application does not meet the requirements of unity of invention and that there are four inventions as defined below.

Invention I (claims 1-7) : Claims 1-3 relate to an article-engaging flap defined in part by a free edge including a segment for forming a non-protrusion. Claims 4-7 relate to a blank wherein a free edge of a flap includes a segment for forming a non-protrusion.

Invention II (claims 8-12, 17-19, 21):

Claims 8-12 relate to a blank comprising panels for forming a tubular structure defining a tubular axis and an article retention device comprising a flap connected to one of the panels along a fold line, wherein the fold line extends at an acute angle with respect to the tubular axis, the acute angle being no more than 50 degrees. Claims 18-19 relate to an article carrier wherein the acute angle is no more than 50 degrees. Claims 17 and 21 respectively relate to a blank and to an article carrier wherein the acute angle is greater than 40 degrees and less than 90 degrees.

Invention III (claims 13-16, 20)

Claims 13-16 relate to a blank wherein at least part of a machine pull opening, for a machine element to engage to tighten the blank around at least an article, is defined. Claim 20 relates to an article carrier wherein at least part of a machine pull opening, for a machine element to engage to tighten the blank around at least an article, is defined.

Invention IV (claims 22-39):

Claims 22-30 relate to a blank comprising a retention device comprising a flap hingedly connected to a first one of the plurality of panels, wherein the flap extends to a first outer edge of the blank. Claims 31-39 relate to an article carrier comprising a retention device comprising a flap, wherein the flap extends to a first outer edge.

The reasons, for which the inventions are not so linked as to form a single general inventive concept, as required by Rule 13.1 PCT, are as follows:

The common matter linking together the independent claims 1, 8, 13 and 22 is the following:

a blank for forming a carton or an article carrier for packaging at least an article comprising a flap for engaging or retaining an article, the flap being hingedly connected to a panel.

This common matter does not comprise a single general inventive concept, based on same or corresponding special technical features within the meaning of Rule 13.2 PCT, because this common matter is known from US2013098977A1.

With reference to the second embodiment and to the figures 9-17 of US2013098977A1, this document discloses a blank (103, see figure 11) for forming a carrier (105) for packaging at least an article (C) comprising a flap (retention flap 107) for engaging or retaining an article (see paragraph 32 which mentions that "The engagement of the retention flaps 107 with the bottom surfaces B of the containers C retains the containers in the carrier 105"), the flap (107) being hingedly (see figure 15 and paragraph 32) and fold line (181)) connected to panel (50).

Invention I: Claims 1-7

US2013098977A1 discloses the following features of claim 1:

an article-engaging flap (Retention flap 107) formed from a carton bottom panel (30) and hingedly connected to the bottom panel (see fold line 181 in figure 17), wherein the engaging flap (107) is defined in part by a free edge.

The following technical features (special technical features-Rule 13.2 PCT) of claim 1 are not disclosed by US2013098977A1:

the free edge includes a segment for forming a non-protrusion, the segment including a part of the free edge which is disposed closest to a carton side panel in an erected form of the carton where the engaging flap is folded inwardly beyond 90 degrees toward the side panel.

These features solve the problem of facilitating the engagement of the flap with an article.

Invention II: Claims 8-12, 17-19, 21

US2013098977A1 discloses the following features of claim 8:

a blank (103) for forming an article carrier (105) for packaging at least one article (C) each having a recess, the blank comprising: a plurality of panels (30, 20, 10, 40, 50) for forming a tubular structure for surrounding at least one article; and an article retention device (retention flap 107) for engaging a recess of one of said at least one article (the recess is located in the bottom B of container C, see for example figure 12) to inhibit

dislodgement of the article from at least one of opposite open ends of the tubular structure, the tubular structure defining a tubular axis, the article retention device (107) comprising a flap hingedly (see fold line 181) connected to a first one of the plurality of panels (30) along a first fold line (181).

The following technical features (special technical features-Rule 13.2 PCT) of claim 8 are not disclosed by US2013098977A1 (since the first fold line 181 does not extend at an angle with respect to the tubular axis and is in fact parallel to the tubular axis):

the first fold line (181) extends at an acute angle with respect to the tubular axis, the acute angle being no more than 50 degrees.

These features solve the problem of providing a carrier having a top panel with a suitable handle while keeping a sufficient engagement of the retention flap with the recess of the article.

Invention III: Claims 13-16, 20

US2013098977A1 discloses the following features of claim 13:

A blank (103) for forming an article carrier (105) for packaging at least one article (C) each having a recess, the blank comprising: a plurality of panels (30, 20, 10, 40, 50) for forming a tubular structure for surrounding at least one article; and an article retention device (107) for engaging a recess of one of said at least one article (the recess is located in the bottom B of container C, see for example figure 12) to inhibit dislodgement of the article from at least one of opposite open ends of the tubular structure, the article retention device (107) comprising a flap (107) struck from only a first one (30) of the plurality of panels and hingedly connected to the first one of the plurality of panels along a first fold line (181, see figure 17), wherein the flap, when folded about the first fold line (181).

The following technical features (special technical features-Rule 13.2 PCT) of claim 13 are not disclosed by US2013098977A1:

wherein the flap defines at least part of a machine pull opening for a machine element to engage to tighten the blank around the at least one article, the flap being a single member formed from the material removed out from the machine pull opening.

These features solve the problem of providing a blank which can be tightened around the at least one article.

Invention IV: Claims 22-30:

US2013098977A1 discloses the following features of claim 22:

A blank (103) for forming an article carrier (105) for packaging at least one article (C) having a recessed portion, the blank comprising: a plurality of panels (30, 20, 10, 40, 50) for forming a tubular structure for surrounding the at least one article; and an article retention device (retention flap 107) for engaging the recessed portion of one of said at least one article (the recess is located in the bottom B of container C, see for example figure 12) to inhibit dislodgement of the article from at least one of opposite open ends of the tubular structure, the article retention device comprising a flap (107) hingedly connected to a first one (30) of the plurality of panels.

The following technical features (special technical features-Rule 13.2 PCT) of claim 22 are not disclosed by US2013098977A1:

wherein the flap extends to a first outer edge of the blank.

This ensures that the flaps is contained entirely within the footprint of the top panel.

The feature that the flap extends to a first outer edge of the blank solves the problem of providing a blank with reduced footprint.

The technical features of the four inventions are neither the same nor corresponding special technical features.

The problems solved by the four inventions are not the same.

The four inventions are not so linked as to form a single general inventive concept and the claims comprise neither the same, nor corresponding special technical features, so the technical relationship between the subject matter of the claims required by Rule 13.2 PCT is lacking and the claims are not so linked as to form a single general inventive concept as required by Rule 13.1 PCT.

Consequently the application does not meet the requirement for unity of invention.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1 US 2013/098977 A1
D2 US 4 693 412 A
D3 WO 2005/044549 A2
D4 US 3 253 381
D5 DE 12 93 674 B

- 1 D1 is regarded as being the prior art closest to the subject-matter of claim 1, and discloses an article-engaging flap (Retention flap 107) formed from a carton bottom panel (30) and hingedly connected to the bottom panel (see fold line 181 in figure 17), wherein the engaging flap (107) is defined in part by a free edge. In D1, it is considered that there is no part of the free edge of the flap 107 that includes a segment for forming a non-protrusion, because the entire free edge of D1 could be considered as a protrusion. The closest part of the flap 17 could be then considered as a protrusion, contrary to the requirement of claim 1. This concept of forming a non-protrusion depends on the shape of the article and is extremely vague, see also point VIII below. A non-protrusion could be understood as a truncation, as mentioned in the description of the application, see last paragraph of page 30.

The subject-matter of claim 1 therefore differs from this known flap in that the free edge includes a segment for forming a non-protrusion, the segment including a part of the free edge which is disposed closest to a carton side panel in an erected form of the carton where the engaging flap is folded inwardly beyond 90 degrees toward the side panel. The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as facilitating the engagement of the flap with an article.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons. The skilled person could think about reducing the size of the engaging segment of the flap to reduce friction between the flap and the article but locating the segment for forming a non-protrusion closest to the carton side wall is neither suggested nor obvious. D2 discloses a flap similar to the one of D1 with a segment that could be considered suitable for forming a non-protrusion (46a, see figure 8) but it is not disposed closest to the side wall. D4 discloses

- what could be considered as a flap (38, 39, 40, 41) having a segment with a non-protrusion but this segment is not disposed closest to the side wall. The same applies to D3, see figure 7 and D5, see figure 4.
- 2 Claims 2 and 3 are dependent on independent claim 1 whose subject-matter is considered as being new and inventive, as discussed above, and as such said dependent claims also meet the requirements of the PCT with respect to novelty and inventive step.
- 3 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 4 is not new in the sense of Article 33(2) PCT. D4 discloses (see figure 4) a blank for forming an article carrier for packaging at least one article each having a recess (C1, C2), the blank comprising: a plurality of panels (6, 2, 1, 3, 8) for forming a tubular structure for surrounding at least one article; and an article retention device (38, 39, 40, 41) for engaging a recess of one of said at least one article to inhibit dislodgement of the article from at least one of opposite open ends of the tubular structure, the article retention device comprising a flap struck from a first one of the plurality of panels and hingedly connected to the first one of the plurality of panels along a first fold line, the flap defining an opening (18, 19, 16, 17) in the first one of the plurality of panels when folded out of the plane of the first one of the plurality of panels, wherein the opening includes a notch (18, 19, 16, 17) which is located along a free edge of the flap (38, 39, 40, 41) when the flap is at its initial unfolded position, wherein the free edge includes a segment for forming a non-protrusion (each of the free edges of the flaps 38, 39, 40 and 41 comprises a curved part which is considered as an engaging segment and a straight part which is considered as a segment forming a non-protrusion because it is "truncated", as in the description of the application, and does not engage a recess of the article). Hence, all the technical features of claim 4 are known from D4.
- Document D5 also discloses all the technical features of claim 4. The subject-matter of claim 4 is not new in view of D5
- 4 Furthermore, D4 discloses the additional technical features of dependent claims 5 and 6, see figure 4. The subject-matter of claims 5 and 6 is not new in the sense of Article 33(2) PCT.
- 5 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 7 is not new in the sense of Article 33(2) PCT. Claim 7 relates to a package comprising a carrier formed from the blank of

claim 4 and at least one article each having a recess, wherein the engaging flap further comprises an engaging segment in securing engagement with a portion of an article. In addition to what is mentioned for claim 4, each flap (38, 39, 40, 41) comprises a segment (the curved segment) which is considered as an engaging segment in securing engagement with a portion of an article. Hence, all the technical features of claim 7 are known from D4.

Re Item VII

Certain defects in the international application

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in D1 is not mentioned in the description, nor is this document identified therein.

Claims 5 and 6 relate to "the blank of claim 3" whereas claim 3 deals with an engaging flap. In addition, claims 5 and 6 make reference to the notch, a feature which is present in claim 4 not in claim 3. The dependencies of claims 5 and 6 is thus not correct.

The entire description should have been checked and corrected. The description comprises many contradictions. For example, on page 31, line 8-10 it is written that "The free edge of the tabs 270, 272 comprise at least one engaging segment 273c, 277a, 277c. The engaging segment 273b, 277b (defined by the second and third cut line portions 273c, 277a, 277c) forms a protrusion, prominence or salient region." This passage of the description (and many others) comprises an incorrect reference number since it is clear that the engaging segment cannot be 273b (or 277b), because it is constantly mentioned that segment 273b is a non-engaging segment.

In addition, the description makes reference to the second cut line portion with reference sign 277b (page 30, line 10) and to another second cut line portion with reference sign 277c (page 30, line 18). Thus, the reader cannot understand the description. In addition, the drawings do not comprise any reference to signs 277a, 277b and 277c. The reader cannot understand the description in view of the drawings and is left guessing which features of claim 1 are depicted.

Re Item VIII

Certain observations on the international application

The application does not meet the requirements of Article 6 PCT, because claim 1 is not clear.

Claim 1 is not clear for at least one of the following reasons.

Claim 1 relates to an article-engaging flap but does not define a single technical feature suitable for engaging an article. Actually, claim 1 is only defined by technical features that do not engage an article. How could a flap according to claim 1 engage in article is not determinable. All features of the flap (all segments 273a, 273b, 273c, fold line, 271 and aperture A2) are essential to the definition of the invention and should have been included into claim 1. Since independent claim 1 does not contain these feature it does not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention. Thus, claim 1 is not clear because it lacks essential features.

Claim 1 is also defined by the wording " the segment including a part of the free edge which is disposed closest to a carton side panel". A lack of clarity arises because the reader cannot determine among which other technical features is the segment disposed the closest to a carton side panel.

In addition, claim 1 is defined by the wording " a segment for forming a non-protrusion". If the wording a segment forming a protrusion could be understood reasonably without difficulty, a segment for forming a non-protrusion is extremely vague. What is a non-protrusion could be interpreted in numerous manners and claim 1 is extremely unclear and could be interpreted in a broad manner, such as the engaging flap comprises a segment which will not engage an article. Since the shape of the article (for example a bottom recess of a can) is not defined in claim 1, claim 1 alone leads to doubt concerning the matter for which protection is sought, thereby rendering the claim unclear, Article 6 PCT.

Claim 1 relates to an article-engaging flap formed from a carton bottom panel. The reader cannot determine if the bottom panel is a technical feature of claim 1. In addition, the claimed flap is defined in relation with a carton side panel. The reader cannot determine if the carton side panel is a technical feature of claim 1 and if the carton side panel is contiguous or connected to the bottom panel. Moreover, the claimed flap is also defined in relation with an erected form of a carton. The reader cannot determine if the erected carton is a technical feature of claim 1. The current wording of claim 1 leads to doubt concerning the matter for which protection is sought (a flap, a bottom panel with a flap, a bottom panel with a flap and a side wall, an erected complete carton, an erected carton with article), thereby rendering the claim unclear, Article 6 PCT. Claim 1 should have been drafted as a claim relating to a carton or to an article carrier comprising articles.

The presence of claim 3 is extremely problematic because the features of claim 3 relate to a preferred embodiment. Claim 3 reads: The engaging flap of claim 1 further comprising an engaging segment for engaging with a portion of an article. How could an engaging flap according to claim 1 not comprise an engaging segment for engaging with a portion of an article is not determinable. In addition there seems to be no support in the description for such a flap. The features of claim 3, as well as all the features of the flap (all segments 273a, 273b, 273c, fold line, 271 and aperture A2) should have been incorporated into claim 1.