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(71) Applicant: INTERNATIONAL PAPER COMPANY [US/US]; 400 Atlantic Street, Stamford, CT 06921 (US).

(72) Inventor: QUAINTANCE, Ben, W.; c/o International Paper Company, 400 Atlantic Street, Stamford, CT 06921 (US).

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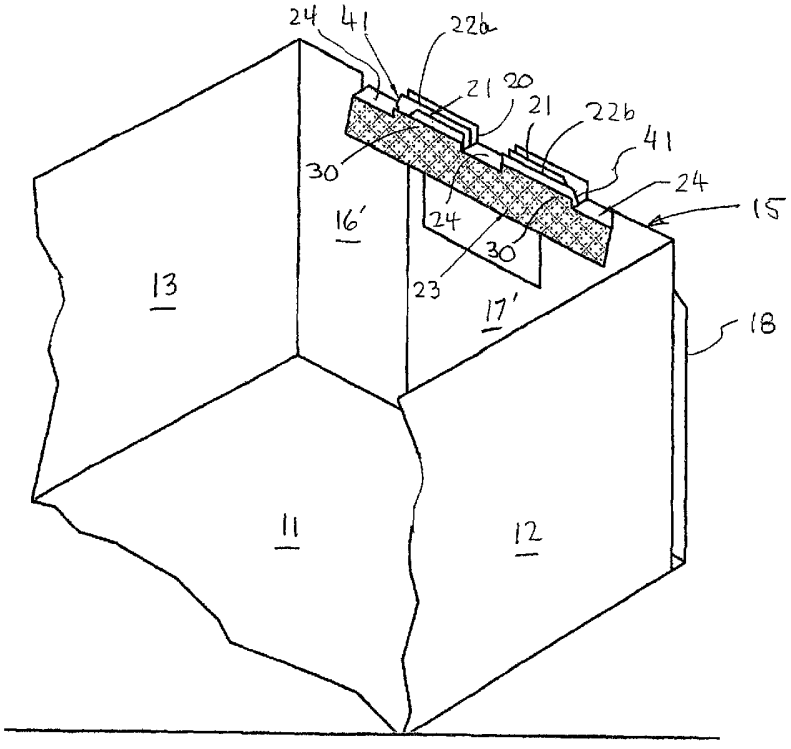
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[Continued on next page]

(54) Title: CONTAINER WITH SELF-LOCKING ROLL-OVER FLAP WITH HOOK LOCK



(57) Abstract: A corrugated paperboard container (10) has a bottom (11), opposite side walls (12, 13) and opposite end walls (14, 15). The end walls include an end panel (18) that is foldably connected to the bottom, and end flap panels (16, 17) that are foldably connected to the side walls. A roll-over flap (23) is connected to the end wall by a web (24), and a notch (20) is in the top edge of the end flap panels. The end wall panel and end flap panels are folded into overlying relationship, and the roll-over flap is folded over an upper edge of the end wall panel, with the web lying in the notch. A projection or hook (41) extends into one side of the notch to engage an edge of the web to retain the web in the notch. A blank for making the container is also disclosed. A cover (50, 70) for the container, and a blank for making the same, include an end wall panel (54, 75) and end flap panels (57, 58), with a roll-over flap (23, 76) connected to the end wall panel, and a hook (41) to engage an edge of the web joining the roll-over flap to an end panel of the cover. In one embodiment of a cover, crushed areas (61, 62) are formed in the cover to provide a depression for receiving an edge of the end flap panels, and in another embodiment, a cover lock tab (73) extends downwardly from the end walls of the cover for engagement in hand hold openings (80) in the ends of a container.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

PCT/IB 03/05033

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65D5/00

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)
IPC 7 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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 158 652 A (RUIZ DAVID ET AL) 12 December 2000 (2000-12-12) column 6, lines 64-67	1,2,10
Y		3-9, 11-14,17
Y	US 4 676 429 A (CROWE STEPHEN O ET AL) 30 June 1987 (1987-06-30) column 3, lines 4,5; figures 1,2	3-9, 11-14,17
Y	US 5 752 648 A (QUAINTANCE BENJAMIN W) 19 May 1998 (1998-05-19) cited in the application column 2, lines 47-51; figures 1,3	3-9, 11-14,17
A	FR 2 144 619 A (CHAMPAGNE CARTONNERIES) 16 February 1973 (1973-02-16) figures 1,2,4	1,10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in 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
5 February 2004	01. 06. 2004

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Augustin, W

INTERNATIONAL SEARCH REPORT

PCT/IB 03/05033

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-14,17

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14, 17

   paperboard container, cover for a container, blanks for forming the container / cover comprising hook means projecting laterally into retaining notches

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2. claim: 15

   Cover comprising relief means comprising a crushed area

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3. claims: 16, 18

   Cover, blank for forming the cover comprising a special cover lock tab

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INTERNATIONAL SEARCH REPORT

PCT/IB 03/05033

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6158652 A	12-12-2000	NONE	
US 4676429 A	30-06-1987	NONE	
US 5752648 A	19-05-1998	NONE	
FR 2144619 A	16-02-1973	FR 2144619 A1	16-02-1973