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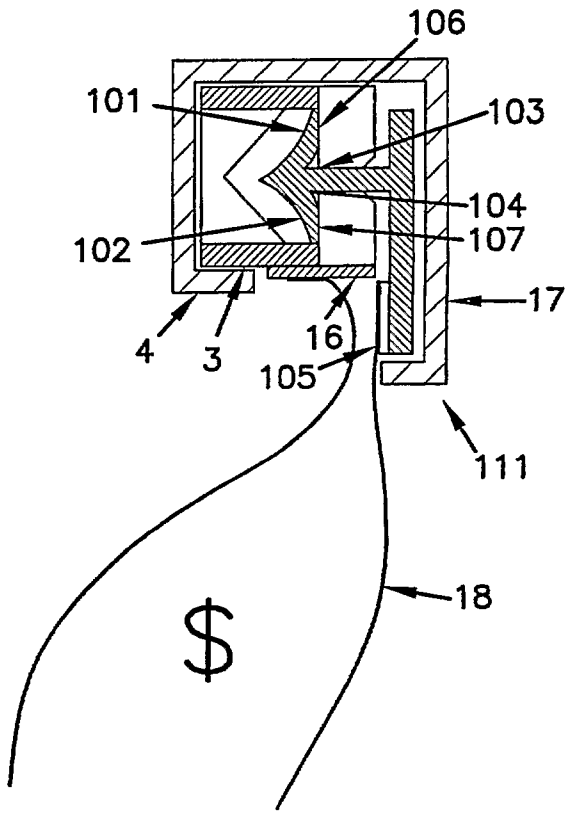
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(54) Title: BAG WITH TAMPER EVIDENCING CLOSURE



(57) Abstract: A closure has at least one channel portion (10) adapted to receive an interlocking profile portion (100). The channel (10) has at least one window (14) permitting visual inspection of a profile interlocked therein. At least one profile is disposed for interlocking with the channel and includes a stem (109) joined to the closure and one or more latching projections (101,102) formed by a frangible connection to the stem, wherein one or more projections are adapted to cooperatively interlock with the channel portion (10) of the closure, thereby sealing the closure. In one closure, a tamper evident structure is included in the form of a slider (600) having a shaver (603) to engage in shaving contact with interlocking closure members when passed along the closure in a direction opposite to the closing direction. The various closure members can include different colors. The closures can be used on bag structures.

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GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, 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).

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/020769

A. CLASSIFICATION OF SUBJECT MATTER
INV. B65D33/25

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 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.
A	WO 98/39226 A (REYNOLDS CONSUMER PROD [US]) 11 September 1998 (1998-09-11) page 5, line 20 - page 8, line 24 figures 1-9	1-16
A	US 4 964 739 A (BRANSON MARK E [US] ET AL) 23 October 1990 (1990-10-23) column 2, line 43 - column 4, line 37 figures 1-4	1-16
A	US 6 004 032 A (KAPPERMAN ELIZABETH J [US] ET AL) 21 December 1999 (1999-12-21) column 3, line 56 - column 14, line 50 figures 1-21	1-16
A	EP 1 344 467 A (ILLINOIS TOOL WORKS [US]) 17 September 2003 (2003-09-17) paragraphs [0010] - [0016] figures 1-3	1-16

☐ 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
23 November 2006	16/04/2007

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	RODRIGUEZ GOMBAU, F

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/020769

Box II Observations where certain claims were found unsearchable (Continuation of item 2 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 III Observations where unity of invention is lacking (Continuation of item 3 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.:

1-16

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: 1-16

Closure with frangible connections and visual inspection window.

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2. claims: 17-20

Closure with tamper evidencing slider.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2006/020769

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9839226 A	11-09-1998	NONE	
US 4964739 A	23-10-1990	NONE	
US 6004032 A	21-12-1999	NONE	
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