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- (71) Applicant (for all designated States except US): **PORANUNT CO., LTD.** [TH/TH]; 181 On-Nut Road, Pravaith, Bangkok 10250 (TH).
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

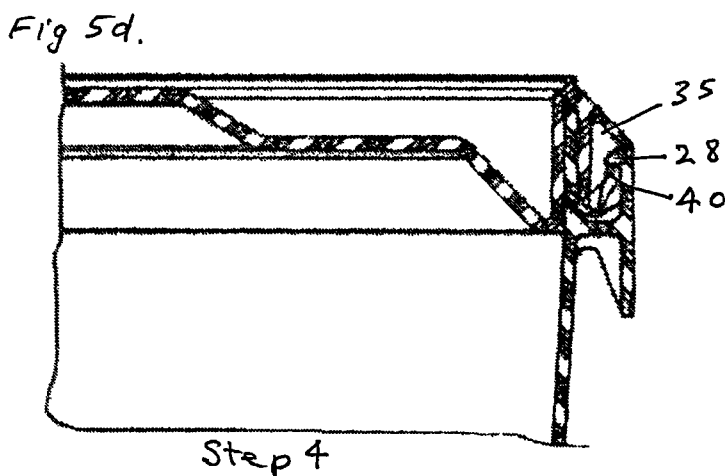
**Published:**

- with international search report (Art. 21(3))

**(88) Date of publication of the international search report:**

26 May 2016

(54) Title: SEALING AND LOCKING MEANS FOR PLASTIC CONTAINERS AND LIDS, AND TO CONTAINERS USING SUCH LOCKING MEANS



(57) Abstract: A plastic container (10) and removable interlocking lid (12) forming in combination a container assembly is disclosed. In cross-sectional view, external wall (20) of the container at its rim section has a tongue (22) extending upwards and terminates in a inward directed lip (28). The lid (12) has a downwardly extending annular skirt (34) connected to a side wall panel (36) by a bridging strip (38). An annular groove (40) connected to terminal end of the skirt (34) by an annular connecting strip (42) and is foldable towards the annular skirt and abutable against the lip (28) when the lid is assembled with the container.



**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/TH 11/00008

<p><b>A. CLASSIFICATION OF SUBJECT MATTER</b>                  IPC(8) - B65D 43/06 (2011.01)                  USPC - 220/783                  According to International Patent Classification (IPC) or to both national classification and IPC</p>														
<p><b>B. FIELDS SEARCHED</b></p> <p>Minimum documentation searched (classification system followed by classification symbols)                  USPC - 220/783</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                  IPC(8): B65D 43/06 (2011.01)                  USPC: 220/783, 780, 782, 783, 789</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                  DialogClassic and Google: Container, receptacle, lid, rim, cover, closure, bend, rotate, fold, flex, bow, deflect, tamper, skirt, abut, annular, annulus, hinge, rib, lip, flange, brim</p>														
<p><b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b></p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X — Y</td> <td>US 3,566,946 A (MacDonald), 02 March 1971 (02.03.1971), entire document, especially col 1, ln 5-17; col 3, ln 8-25; col 3, ln 40-64; col 4, ln 64-67; Fig. 1, 3 and 6</td> <td>1, 4-6, 8, 12-13, 15-17 — 2-3, 7, 9 and 11</td> </tr> <tr> <td>X — Y</td> <td>US 2007/0102438 A1 (Schwarz), 10 May 2007 (10.05.2007), entire document, especially para [0028]; para [0030]; Fig. 1-4</td> <td>10 — 3, 7, 9 and 11</td> </tr> <tr> <td>Y</td> <td>US 2006/0255040 A1 (Woinarski), 16 November 2006 (16.11.2006), entire document, especially para [0030]-[0032] and [0044]; Fig. 2, 3 and 6</td> <td>2 and 11</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X — Y	US 3,566,946 A (MacDonald), 02 March 1971 (02.03.1971), entire document, especially col 1, ln 5-17; col 3, ln 8-25; col 3, ln 40-64; col 4, ln 64-67; Fig. 1, 3 and 6	1, 4-6, 8, 12-13, 15-17 — 2-3, 7, 9 and 11	X — Y	US 2007/0102438 A1 (Schwarz), 10 May 2007 (10.05.2007), entire document, especially para [0028]; para [0030]; Fig. 1-4	10 — 3, 7, 9 and 11	Y	US 2006/0255040 A1 (Woinarski), 16 November 2006 (16.11.2006), entire document, especially para [0030]-[0032] and [0044]; Fig. 2, 3 and 6	2 and 11
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p>														
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </td> <td style="vertical-align: top;"> <p>"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</p> <p>"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</p> <p>"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</p> <p>"&amp;" document member of the same patent family</p> </td> </tr> </table>			<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&amp;" document member of the same patent family</p>										
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<p>Date of the actual completion of the international search 28 November 2011 (28.11.2011)</p>		<p>Date of mailing of the international search report <b>16 DEC 2011</b></p>												
<p>Name and mailing address of the ISA/US                  Mail Stop PCT, Attn: ISA/US, Commissioner for Patents                  P.O. Box 1450, Alexandria, Virginia 22313-1450                  Facsimile No. 571-273-3201</p>		<p>Authorized officer: Lee W. Young</p> <p>PCT Helpdesk: 571-272-4300                  PCT OSP: 571-272-7774</p>												

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/TH 11/00008

**Box No. 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.: 14  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. 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:

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 additional fees, this Authority did not invite payment of additional fees.
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.:

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.