

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 August 2009 (06.08.2009)

(10) International Publication Number
WO 2009/095109 A3

(51) International Patent Classification:
B65D 1/02 (2006.01) **B29C 49/00** (2006.01)

(21) International Application Number:
PCT/EP2008/065558

(22) International Filing Date:
14 November 2008 (14.11.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2008-0056 29 January 2008 (29.01.2008) BE

(71) Applicant (for all designated States except US): **DELTA ENGINEERING BVBA** [BE/BE]; Parkbos 1, B-9500 Ophasselt (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DE BRUYN, Danny** [BE/BE]; Varing 17, B-1760 Roosdaal (BE). **DE GROOT, Henk** [NL/NL]; Bovenstraat 86, NL-4741 TP Hoeven (NL).

(74) Agents: **BIRD, William E.** et al.; Klein Dalenstraat 42a, B-3020 Winksele (BE).

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

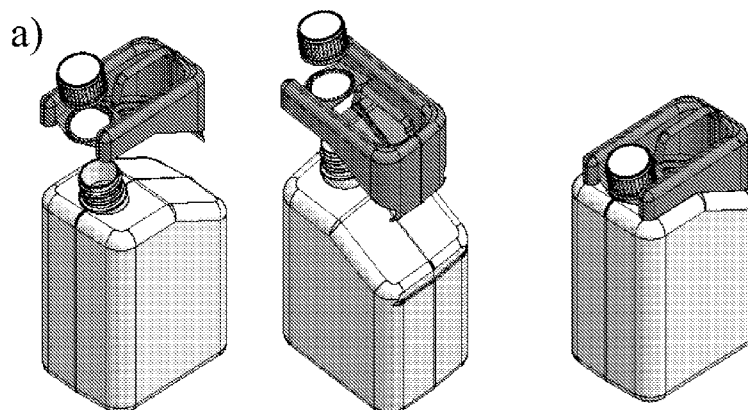
Published:

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

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
29 October 2009

(54) Title: BASIC CONTAINER AND CONTAINER COMPRISING A TOP CUP AND THE BASIC CONTAINER



(57) Abstract: A basic container comprising a top, a substantially flat bottom and at least three substantially flat sides at an angle of substantially 90° with respect to the bottom, the basic container being leak-free except for a container head in the top with a filling/emptying opening and a means for providing a leak-free closure with a closure means, wherein the axis of the container head is at an acute angle with respect to the bottom; a process for the manufacturing thereof; a top cup adapted to be attachable to the top of the above-described basic container without obstructing the filling/emptying opening of the container head of the basic container; and a plastic container comprising the above-described basic container and the above-described top cup attached with attachable means to the basic container, wherein the top cup does not obstruct the opening of the container head.



WO 2009/095109 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2008/065558

A. CLASSIFICATION OF SUBJECT MATTER
INV. B65D1/02 B29C49/00

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)
B65D B29C

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)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 361 141 A (DAINIPPON PRINTING CO LTD [JP]) 4 April 1990 (1990-04-04) the whole document	1-7,9
X	WO 03/059753 A (PLASTIPAK PACKAGING INC [US]) 24 July 2003 (2003-07-24) the whole document	1-5
A		9
X	US 5 647 516 A (YOUNG WILLIAM C [US] ET AL) 15 July 1997 (1997-07-15) the whole document	1-5
A		9
A	EP 0 343 778 A (JOHNSEN JORGENSEN PLASTICS LTD [GB]) 29 November 1989 (1989-11-29) abstract; figure 1	1-9
	-/--	

☒ 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

1 July 2009

Date of mailing of the international search report

07/09/2009

Name and mailing address of the ISA/
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Visentin, Mauro

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2008/065558

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 604 642 B1 (BARRUW JACOB [US]) 12 August 2003 (2003-08-12) the whole document -----	1-9
X	DE 199 17 916 A1 (DALLI WERKE WAESCHE UND KOERPE [DE]) 26 October 2000 (2000-10-26) column 7, lines 17-45; figure 2 -----	10
X	WO 01/08868 A (LIMANJAYA TJANDRA [ID]) 8 February 2001 (2001-02-08) the whole document -----	10
X	WO 01/62470 A (ALPLA WERKE [AT]; MENNEL WALTER [AT]) 30 August 2001 (2001-08-30) page 13, lines 15-20; figure 5 -----	10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2008/065558

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.:
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:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an 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.:

1-10
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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-9

Blow moulded plastic container comprising an inclined head (i.e. an opening whose axis is at an acute angle with respect to the bottom of the container).

2. claim: 10

Process for manufacturing a blow moulded plastic container comprising the step of placing the preform in the manufacturing mould at an acute angle with respect to the bottom of the mould (?)

3. claims: 11-17

a top cup adapted to be attachable to the top of a container (having an inclined head), said top cup not obstructing the opening of the container.

4. claims: 18-21

a plastic container (having an inclined head) with attached a top cup not obstructing the opening of the container.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2008/065558

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0361141	A	04-04-1990	DE 68923750 D1	14-09-1995
			DE 68923750 T2	18-01-1996
WO 03059753	A	24-07-2003	AU 2002346461 A1	30-07-2003
			CA 2416077 A1	15-07-2003
			EP 1472076 A2	03-11-2004
			MX PA02012561 A	03-09-2004
US 5647516	A	15-07-1997	CA 2159795 A1	20-04-1996
			US 5503308 A	02-04-1996
EP 0343778	A	29-11-1989	JP 1308759 A	13-12-1989
US 6604642	B1	12-08-2003	NONE	
DE 19917916	A1	26-10-2000	NONE	
WO 0108868	A	08-02-2001	AT 302681 T	15-09-2005
			AU 770638 B2	26-02-2004
			AU 5755699 A	19-02-2001
			DE 69926922 D1	29-09-2005
			DE 69926922 T2	17-08-2006
			EP 1278626 A2	29-01-2003
			JP 2003523289 T	05-08-2003
			US 7033535 B1	25-04-2006
WO 0162470	A	30-08-2001	AT 246990 T	15-08-2003
			AU 3401401 A	03-09-2001
			BR 0107938 A	21-01-2003
			DE 50100497 D1	18-09-2003
			EP 1257406 A1	20-11-2002
			ES 2203593 T3	16-04-2004
			MX PA02007891 A	29-11-2002
			PL 357372 A1	26-07-2004
			PT 1257406 E	31-12-2003
			US 2003122286 A1	03-07-2003