



(43) International Publication Date
10 November 2005 (10.11.2005)

PCT

(10) International Publication Number
WO 2005/105602 A3

(51) International Patent Classification: ⁷ **B65D 77/04**,
51/24

(21) International Application Number:
PCT/IB2005/051390

(22) International Filing Date: 28 April 2005 (28.04.2005)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
TO2004A000276 3 May 2004 (03.05.2004) IT

(71) Applicant (for all designated States except US): **SORE-
MARTEC S.A.** [BE/BE]; Drève de l'Arc-en-Ciel 102,
B-6700 SCHOPPACH-ARLON (BE).

(71) Applicant (for IT only): **FERRERO S.p.A.** [IT/IT]; Piazz-
zale Pietro Ferrero 1, I-12051 ALBA (Cuneo) (IT).

(71) Applicant (for DE only): **FERRERO OFFENE HAN-
DELSGESELLSCHAFT m.b.H.** [DE/DE]; Rheinstrasse
3-7, 35260 STADTALLENDORF (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CAVALLI, Moreno**
[IT/IT]; Via Ciro Menotti 5, I-12051 ALBA (Cuneo) (IT).
STRUMIA, Bruno [IT/IT]; Via Piumati 67, I-12042 BRA
(Cuneo) (IT). **TERRASI, Giuseppe** [IT/IT]; Frazione
Manera 14, I-12050 BENEVELLO (Cuneo) (IT).

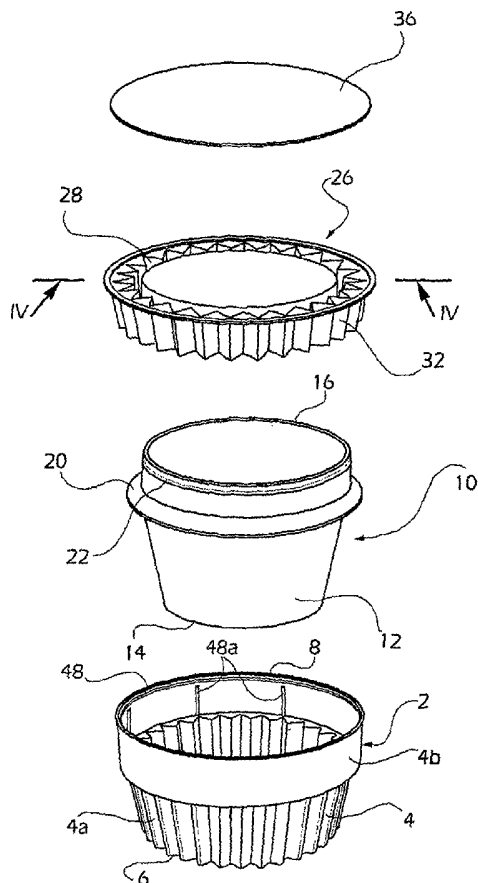
(74) Agents: **RAMBELLI, Paolo** et al.; Corso Emilia 8,
I-10152 Torino (IT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: CONTAINER FOR PACKAGING FROZEN OR CHILLED FOOD PRODUCTS



(57) Abstract: A container for packaging frozen or chilled food products, comprising a first cuplike containing body (2) made from thermoformed plastics material, having a lateral wall (4) and a mouth (8), and a second cuplike containing body (10), made from a thermoformed or injection moulded thermoplastic or paper material, with a corresponding lateral wall (12) and mouth (16), in which the said second containing body (10) is fitted into the first containing body (2) and designed so as to form an annular gap (18) between its lateral wall (12) and the lateral wall (4) of the first containing body (2), and in which the lateral wall of the second containing body (12) has a radial flange (20) serving to seal the said gap (18).



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, 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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ,

NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- *of inventorship (Rule 4.17(iv)) for US only*

Published:

- *with international search report*

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

30 March 2006

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

International Application No

PCT/IB2005/051390

A. CLASSIFICATION OF SUBJECT MATTER

B65D77/04 B65D51/24

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.
X	DE 101 14 202 A1 (ENTERLINE CO. LTD., SEOUL/SOUL) 27 September 2001 (2001-09-27)	1,4,5,20
Y	column 2, lines 27-61; figures 2,4	14,15
X	US 5 099 998 A (CURZON ET AL) 31 March 1992 (1992-03-31)	1,2,4, 10,11
	column 3, line 64 - column 5, line 7; figure 1	
X	EP 0 763 483 A (NIPPON SANSO CORPORATION) 19 March 1997 (1997-03-19)	1,4,5
	column 15, line 18 - column 17, line 52; figure 1	
X	EP 0 888 740 A (NIPPON SANSO CORPORATION) 7 January 1999 (1999-01-07)	1,4,5,12
	page 4, lines 15,16; figures 1,2	
	-/--	

☒ 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

29 August 2005

Date of mailing of the international search report

05. 12. 2005

Name and mailing address of the ISA

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

Authorized officer

Cazacu, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2005/051390

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 752 653 A (RAZZAGHI ET AL) 19 May 1998 (1998-05-19) column 3, line 31 - column 4, line 48; figure 1 -----	1,4-6,8
X	US 6 109 518 A (MUELLER ET AL) 29 August 2000 (2000-08-29) column 2, line 36 - column 4, line 21; figures 1-12 -----	1,2,5,6, 8,9
X	US 4 548 348 A (CLEMENTS ET AL) 22 October 1985 (1985-10-22) column 2, line 10 - column 3, line 24; figures 1,2 -----	1,2,4-6
X	US 3 871 543 A (CHADFIELD ET AL) 18 March 1975 (1975-03-18) column 1, line 66 - column 3, line 14; figures 1,5 -----	1,4,5,9, 11
Y	EP 0 612 665 A (SORENSEN, JENS OLE) 31 August 1994 (1994-08-31) column 3; figures 1,3 -----	14,15
X	US 6 528 105 B1 (GERHART MARK ET AL) 4 March 2003 (2003-03-04) column 3, line 26 - column 4, line 3; figure 3 -----	1-4
X	US 2002/192338 A1 (NESS RICHARD B ET AL) 19 December 2002 (2002-12-19) paragraphs [0034], [0035]; figure 2 -----	1-4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/051390

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.:
1-6,8-12,14,15,19,20

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: 1-6, 8-12, 14, 15 and 19, 20

container without a lid

2. claims: 7, 13 and 16-18

lid

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/051390

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 10114202	A1	27-09-2001	FR 2808515 A1 JP 2001270570 A KR 198344 Y1	09-11-2001 02-10-2001 02-10-2000
US 5099998	A	31-03-1992	CA 2064239 A1 EP 0491891 A1 JP 5505374 T KR 9509104 B1 WO 9117926 A1	18-11-1991 01-07-1992 12-08-1993 14-08-1995 28-11-1991
EP 0763483	A	19-03-1997	CA 2185298 A1 CN 1158235 A DE 69613920 D1 DE 69613920 T2 KR 260956 B1 US 5904264 A	14-03-1997 03-09-1997 23-08-2001 11-04-2002 01-09-2000 18-05-1999
EP 0888740	A	07-01-1999	CA 2243186 A1 CN 1209734 A WO 9822007 A1 JP 2963664 B2 JP 10151078 A KR 265874 B1 TW 400221 B US 6152319 A	28-05-1998 03-03-1999 28-05-1998 18-10-1999 09-06-1998 15-09-2000 01-08-2000 28-11-2000
US 5752653	A	19-05-1998	NONE	
US 6109518	A	29-08-2000	DE 19840841 A1	09-03-2000
US 4548348	A	22-10-1985	CA 1225341 A1	11-08-1987
US 3871543	A	18-03-1975	NONE	
EP 0612665	A	31-08-1994	DE 69402349 D1 DE 69402349 T2 JP 7002251 A US 5267685 A	07-05-1997 10-07-1997 06-01-1995 07-12-1993
US 6528105	B1	04-03-2003	AU 7367801 A CA 2403487 A1 EP 1301111 A2 MX PA02009446 A WO 0205691 A2 US 2003054078 A1 US 2003157224 A1	30-01-2002 24-01-2002 16-04-2003 12-02-2003 24-01-2002 20-03-2003 21-08-2003
US 2002192338	A1	19-12-2002	NONE	