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(54) **Ice cube bag**

(57) An ice cube bag comprises two sheet-shaped foil layers (12, 14; 12', 14') defining an outer periphery. A peripheral joint (20, 21, 21a, 21b) extends along the major part of the outer periphery of the foil layers, with the exception of a peripheral area constituting an inlet aperture of said bag (10). Their peripheral joint joins the foil layers together defining an inner chamber which is divided into several ice cube compartments defined by separate joints (22, 23, 24, 25, 29) of the foil layers. An inlet channel extends from the inlet aperture to the inner chamber of the bag hereby allowing admission from the surroundings to the inner chamber of the bag through the inlet channel. Each of said separate joints (22, 23, 24, 25, 29) is constituted by a number of individual joints (22, 23, 24, 25, 29), each of these individual joints (22, 23, 24, 25, 29) establishing a connection between the two sheet-shaped foil layers (12, 14; 12', 14') with such a joint strength and with such a limited area extension that the individual joint is not broken when the foil layers (12, 12'; 12', 14') are exposed to a separation force, but provides a tearing apart or perforation (44) in one of the foil layers (12, 14; 12', 14') along the periphery of said individual joints. Hereby an ice cube bag is obtained which is easy to open by tearing it apart.

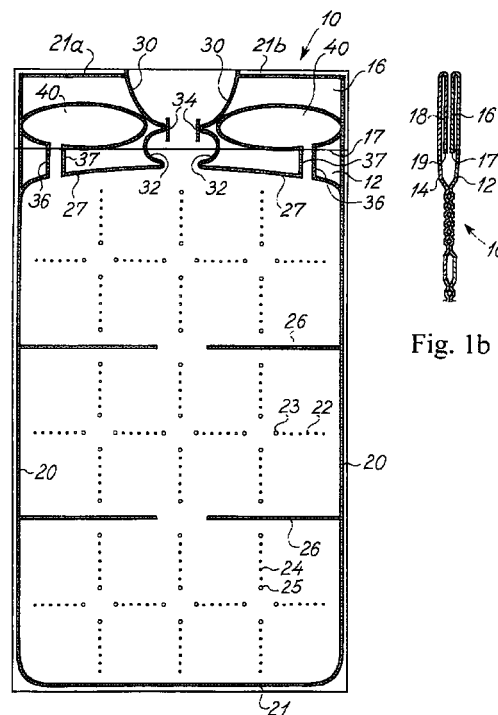


Fig. 1a

Fig. 1b

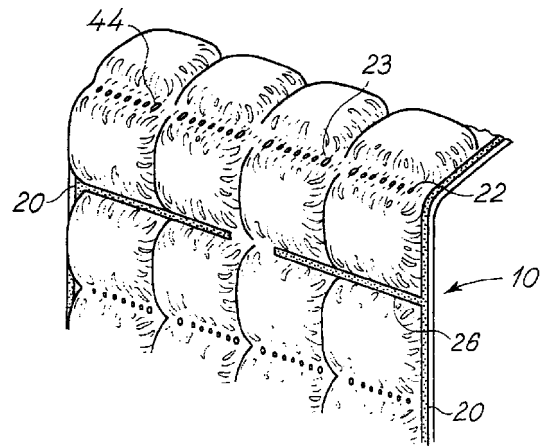


Fig. 3a

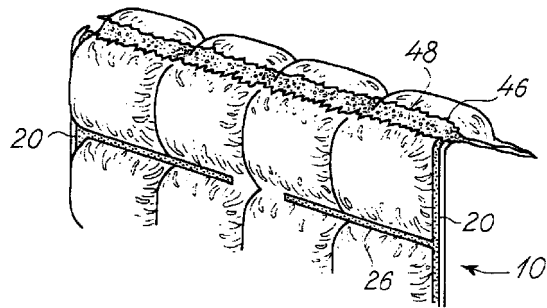


Fig. 3b



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 98 61 0048

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	US 4 587 810 A (FLETCHER) 13 May 1986 * column 6, line 13 * * column 10, line 46 - column 11, line 59; figures 4,5 *	1-15	F25C1/24 B65D30/22 B65D85/72
A	US 4 813 646 A (FUJIO) 21 March 1989 ---	1-15	
A,D	US 4 223 043 A (JOHNSON) 16 September 1980 * column 3, line 42 - line 47; claims 1,4; figures 1-4,6-9,12 * * abstract *	1	
A,D	US 3 207 420 A (OCTAVIANO DE J. NAVARRETE-KINDELAN) 21 September 1965 * column 3 * * column 9 * * see figure 7 and adherent text *	1-15	
A,D	US RE31890 E (VANGEDAL-NIELSEN) 21 May 1985 * see figure 7 and adherent text *	1-15	
A,D	WO 87 01183 A (ICEPACK SERVICE AG) 26 February 1987 ---	1-15	TECHNICAL FIELDS SEARCHED (Int.Cl.6) F25C B65D
A	WO 92 15491 A (SCHUR CONSUMER PRODUCTS A/S) 17 September 1992 * claims 1,13,16; figures 1-5 *	1-13,15	
A	WO 86 04561 A (HANSEN, SVEND) 14 August 1986 * claim 1; figure 1 *	1-15	
A	EP 0 129 072 A (FOLKMAR, JAN) 27 December 1984 * abstract; figures 1-3 * -----	1-15	
The present search report has been drawn up for all claims			
Place of search STOCKHOLM		Date of completion of the search 28 April 1999	Examiner LÖFVING INGER
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 61 0048

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28-04-1999

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4587810	A	13-05-1986	NONE	
US 4813646	A	21-03-1989	NONE	
US 4223043	A	16-09-1980	NONE	
US 3207420	A	21-09-1965	NONE	
US RE31890	E	21-05-1985	DK 30977 A	26-07-1978
			AU 510460 B	26-06-1980
			AU 3267178 A	02-08-1979
			BE 863250 A	16-05-1978
			CA 1098328 A	31-03-1981
			CH 621406 A	30-01-1981
			DE 2802365 A	12-10-1978
			FI 780211 A,B,	26-07-1978
			FR 2378243 A	18-08-1978
			GB 1588602 A	29-04-1981
			HK 20985 A	29-03-1985
			IE 46031 B	26-01-1983
			JP 1130243 C	17-01-1983
			JP 53092952 A	15-08-1978
			JP 57013782 B	19-03-1982
			LU 78937 A	09-06-1978
			NL 7800732 A,B,	27-07-1978
			SE 429538 B	12-09-1983
			SE 7800875 A	26-07-1978
			US 4181285 A	01-01-1980
WO 8701183	A	26-02-1987	DK 365585 A	13-02-1987
			DK 378185 A	21-02-1987
			AT 58594 T	15-12-1990
			AU 6283286 A	10-03-1987
			CA 1298478 A	07-04-1992
			EP 0248817 A	16-12-1987
			FI 871505 A,B,	07-04-1987
			GR 861968 A	10-11-1986
			JP 63500471 T	18-02-1988
			US 4783042 A	08-11-1988
			AT 51839 T	15-04-1990
			AU 6283086 A	10-03-1987
			CA 1318772 A	08-06-1993
			WO 8701097 A	26-02-1987
			EP 0248818 A	16-12-1987
			FI 871582 A,B	10-04-1987
			GR 861969 A	10-11-1986

EPO FORM P0459

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 61 0048

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-04-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8701183 A		JP 4036942 B	17-06-1992
		JP 63500792 T	24-03-1988
		US 4811465 A	14-03-1989
-----			
WO 9215491 A	17-09-1992	AT 112223 T	15-10-1994
		AT 171432 T	15-10-1998
		AU 1417392 A	06-10-1992
		DE 69200477 D	03-11-1994
		DE 69200477 T	02-02-1995
		DE 69227124 D	29-10-1998
		DK 574496 T	24-10-1994
		EP 0574496 A	22-12-1993
		EP 0616948 A	28-09-1994
		EP 0825122 A	25-02-1998
		ES 2065179 T	01-02-1995
		US 5527012 A	18-06-1996
		DK 9200011 Y	28-08-1992
-----			
WO 8604561 A	14-08-1986	DK 40985 A	31-07-1986
		EP 0210265 A	04-02-1987
-----			
EP 129072 A	27-12-1984	DK 227683 A	07-12-1984
		AU 2809184 A	22-11-1984
		DE 3418597 A	22-11-1984
		DE 8415240 U	12-07-1984
		FI 842006 A	21-11-1984
		GR 81591 A	11-12-1984
		JP 59222678 A	14-12-1984
		PT 78609 A,B	01-06-1984
-----			