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(84)	Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR Designated Extension States:	(71) Applicant: "Refrigeracion Y Acondicionamiento Pasivo S.L." Madrid (ES)				
	AL LT LV MK RO SI	(72) Inventor: Del Real Alcala, Hermogenes, c/o Refrig.				
(30)	Priority: 20.10.2000 ES 200002535	Alcorcon C.P. 289 25, Madrid (ES)				

## (54) System for preservation and transportation of perishable goods and similar ones in thermally isolated chambers or containers

(57) System for preservation and transportation for the long life of perishable goods and similar ones in chambers and containers thermally isolated.

Characterized by the utilization of insulated leakproof units (2) connected to a condenser with conventional compressor (3) by means of refrigerating circuit (4) that allows the invertion of the cycle of refrigeration to heating, besides, with a ventilation system (5) that increases the cooling-heating of air in a zone separated from the goods, so that afterwards it sends the air to the chamber using lower velocities to 0.25 meters/second with vent that not affect to the transmission of heat from leak-proof units by natural convection. The whole system is controlled by sensors (7) and a switchboard (8).

The applications comprises all the aspects of preservation and transportation of perishable goods and similar ones.

An alternative is the incorporation of resistances (9) to the ventilation system (5).

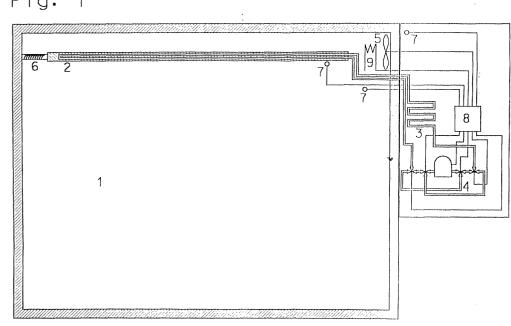


Fig. 1



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## EUROPEAN SEARCH REPORT

Application Number EP 01 50 0250

Category	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)		
X	GB 357 495 A (SULZER ANONYME) 24 September * claims 1,2 *	F25D13/00 B65D88/74 F25D17/06				
Y	* page 2, line 59 - 1	ine 83 *	2,3			
Y	US 3 888 091 A (BUTTS) 10 June 1975 (1975-06 * abstract *		2,3			
Y	US 4 553 584 A (BLOOM 19 November 1985 (1985 * abstract * * column 4, line 10 -	5-11-19)	3			
A	US 4 076 074 A (TOMPK) 28 February 1978 (1978 * abstract * * column 3, line 52 -	3-02-28) line 63 *	2			
A	* column 5, line 20 - GB 2 098 362 A (SEA CO 17 November 1982 (1982 * abstract *	DNTAINERS LIMITED)	1	TECHNICAL FIELDS SEARCHED (Int.Cl.7) F25D F25B		
A	US 3 135 102 A (ULLST 2 June 1964 (1964-06-6 * column 4, line 67 -	02)	1	B65D		
A	US 5 065 587 A (HOWLAM 19 November 1991 (1991 * abstract * * column 4, line 49 -	1-11-19)	1			
A	US 4 977 752 A (HANSON) 18 December 1990 (1990-12-18) * abstract * * column 5, line 39 - line 42 * -/		1			
	The present search report has been	drawn up for all claims				
		Date of completion of the search		Examiner		
X : parti Y : parti	THE HAGUE TEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same category	7 November 2002 T : theory or principi E : earlier patent do after the filing da D : document cited f L : document cited f	le underlying the in cument, but publis te in the application	NO, M nvention shed on, or		
A : tech	written disolosure mediate document		& : member of the same patent family, corresponding document			



European Patent Office

## EUROPEAN SEARCH REPORT

Application Number EP 01 50 0250

	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with in of relevant passa	ndication, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 4 147 038 A (HOE 3 April 1979 (1979- * abstract *	EBING) -04-03)	1	
-				TECHNICAL FIELDS
				SEARCHED (Int.CI.7)
	The present search report has I	been drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	7 November 2002	2 SOG	NO, M
X : parti Y : parti docu	TEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anoth ment of the same category nological background	E : earlier patent after the filing a ner D : document cite L : document cite	ed in the application d for other reasons	vention hed on, or
O:non-	written disclosure mediate document		e same patent family,	

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

EP 01 50 0250

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.

07-11-2002

	Patent document cited in search repo		Publication date		Patent fam member(s	aly \$)	Publication date
GB	357495	A	24-09-1931			<b>*****</b> *******************************	2019-00-00-00-00-00-00-00-00-00-00-00-00-00
US	3888091		10-06-1975	AR AU BE DE ES FR GB JP ZA	206019 7948975 827526 2513677 436280 2266479 1493421 50135662 7501765	A A1 A1 A1 A1 A A A	23-06-197 30-09-197 31-07-197 23-10-197 01-07-197 31-10-197 30-11-197 28-10-197 25-02-197
US	4553584	A	19-11-1985	ĊA	1242087	A1	20-09-198
US	4076074	A	28-02-1978	NONE	1 7644 586- 994 2991 isan bili dage ang seka ang		994 1795 660 989 969 801 889 399 989 660 769 9
GB	2098362 2	A		NONE			
	3135102	A	02-06-1964				
		А	19-11-1991	NONE	4 084 900 981 055 gay 089 844 944 845 84		
US	4977752	A	18-12-1990	CA CN EP JP	2031371 1053118 0435535 4251169	A A2	29-06-1993 17-07-1993 03-07-1993 07-09-1993
US	4147038	A		NONE	i Mani Angi Mani Mani Jung Ling Angi Tang Tang Tang Tang		
			Official Journal of the E				