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(54) **Stretch wrapping machine and method for stretch wrapping**

(57) The present invention relates to a stretch wrapping machine and a device for stretch wrapping products which must breathe during their storage and transport process. The stretch wrapping machine comprises a rotating base (1) configured to support the palletized load and a fixed column (2) next to the rotating base (1) comprising a first reel (3) of an extendable sheet (5), said first reel (3) being movable along said column (2). The stretch wrapping machine additionally comprises a second reel

(4) of a non-extendable sheet (6), said second reel (4) being movable along said column (2). As a result of the transpiration features of the extendable sheet (5), the preservation of the load will be optimal. The method of the invention comprises stretch wrapping the load with the extendable sheet (5) to subsequently stretch wrap the load with a layer formed on the inside by the non-extendable sheet (6) and on the outside by the extendable sheet (5).

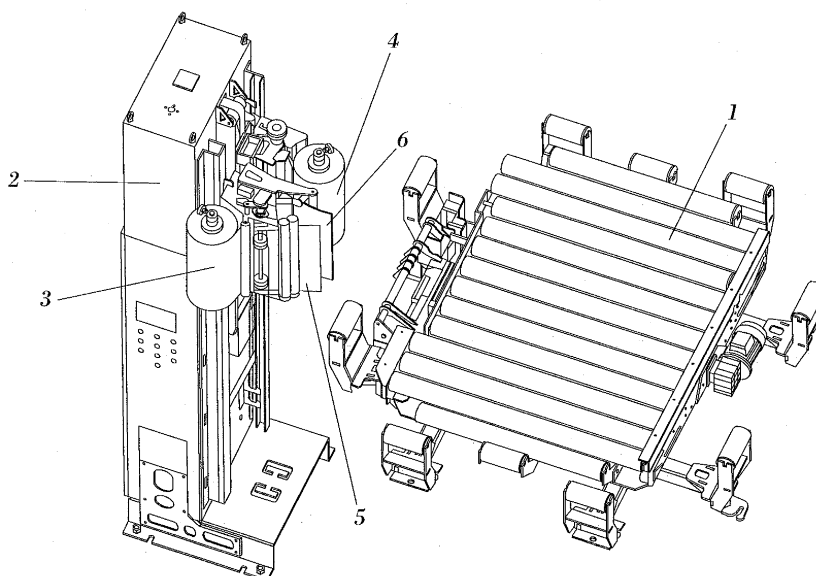


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 09 38 2050

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP H04 327108 A (SEKISUI JUSHI KK) 16 November 1992 (1992-11-16)	1,2,12, 18-21	INV. B65B11/02
Y	* paragraphs [0010], [0012], [0013]; claims 1-3; figures 1-3 *	3,5-11, 13-17	B65B11/04 B65B11/58
A	-----	4,22	B65B25/04
Y	EP 1 415 913 A1 (DNC S A [ES]) 6 May 2004 (2004-05-06)	3	ADD. B65B51/10
A	* paragraphs [0014], [0045], [0057], [0075]; figures 1,6 *	1,2,4-22	B65B61/10 B65B11/00
Y	US 6 195 968 B1 (MAROIS YANICK [CA] ET AL) 6 March 2001 (2001-03-06)	5-11	
A	* column 4, line 12 - column 5, line 8; figures 4-18 *	1-4, 12-22	
Y	US 5 088 270 A (DIEHL WERNER K [US]) 18 February 1992 (1992-02-18)	8,9	
A	* column 2, line 8 - line 29 *	1-7, 10-22	
Y	FR 2 647 082 A1 (ALBERT PLASTIQUES [FR]) 23 November 1990 (1990-11-23)	13-15	TECHNICAL FIELDS SEARCHED (IPC)
A	* page 1, line 13 - line 16; figures 2,3 *	1-12, 16-22	B65B
Y	US 2004/045259 A1 (SOLIS ALFONSO [US] ET AL) 11 March 2004 (2004-03-11)	16,17	
A	* paragraph [0046]; figures 1-4 *	1-15, 18-22	
A,D	US 2006/260279 A1 (JAFARI BEHZAD A [US]) 23 November 2006 (2006-11-23)	1-22	
A	* paragraphs [0002] - [0031] *	1-22	
A	DE 41 21 573 A1 (WACKER WALTER [DE]) 7 January 1993 (1993-01-07)	1-22	
	* claims 1-3; figures 8a-8c *		
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 21 April 2015	Examiner Vassoille, Philippe
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			

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

EP 09 38 2050

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
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21-04-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP H04327108 A	16-11-1992	NONE	
EP 1415913 A1	06-05-2004	NONE	
US 6195968 B1	06-03-2001	NONE	
US 5088270 A	18-02-1992	AT 107590 T	15-07-1994
		AU 639847 B2	05-08-1993
		AU 8963791 A	02-07-1992
		CA 2057470 A1	01-07-1992
		DE 69102625 D1	28-07-1994
		DE 69102625 T2	06-10-1994
		EP 0493940 A1	08-07-1992
		ES 2055965 T3	01-09-1994
		FI 916157 A	01-07-1992
		NZ 240966 A	27-07-1993
		US 5088270 A	18-02-1992
FR 2647082 A1	23-11-1990	NONE	
US 2004045259 A1	11-03-2004	CA 2539006 A1	24-03-2005
		US 2004045259 A1	11-03-2004
		WO 2005025992 A1	24-03-2005
US 2006260279 A1	23-11-2006	NONE	
DE 4121573 A1	07-01-1993	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82