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#### (54) Reclosable packaging

(57)A reclosable package or bag (2) having a mouth with a hermetic plastic zipper (4) installed therein. The hermetic zipper (4) has first (12) and second (14) interlockable profiled structures connected by a frangible connection (24) and having no flanges. The package or bag (2) is constructed such that the frangible connection (24) resides on the product side of the zipper (4), i.e., the frangible connection (24) extends inside the receptacle of the package or bag (2), when the package is in an unopened state, i.e., when the zipper (4) is closed. Preferably, the first interlockable profiled structure (12) has at least one male member (20) with an expanded head and the second interlockable profiled structure has at least one female member (22) with a groove for receiving the expanded head of a male member (20).

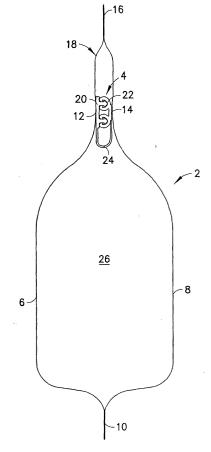


FIG.1



## **EUROPEAN SEARCH REPORT**

Application Number EP 03 25 0629

<u>;</u>	DOCUMENTS CONSIDER		Delever	01.4001510.1510.1.01
Category	Citation of document with indic of relevant passage		Refevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X Y A	EP 0 443 867 A (MAYER 28 August 1991 (1991- * column 1, line 3 - * column 4, line 22 - figures 2-6 *	.08-28) column 2, line 43 *	1-4, 15-20 21 6-14	B65D33/25 B29D5/10
X A	EP 0 302 144 A (MINIO 8 February 1989 (1989 * column 2, line 4 - * column 5, line 16 -	0-02-08) column 3, line 40 *	1-4, 15-20 8,13	
X Y	US 5 725 312 A (MAY 7 10 March 1998 (1998-6 * column 17, line 25 * column 22, line 15 19-21 *	3-10) - line 35 *	1-3,5, 15-17 21	
X	US 5 092 684 A (WEEKS 3 March 1992 (1992-03 * column 2, line 35 - tolumn 5, line 50 - 1,3-7 *	-03) line 67 *	6-14	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
X	US 3 462 332 A (GOTO 19 August 1969 (1969- * column 1, line 15 - claims 1-4; figure 2	08-19) column 2, line 12;	6,7, 9-12,14	B65D B29D A44B
A	US 4 540 537 A (KAMP 10 September 1985 (19 * column 5, line 5 - 	85-09-10)		
	The present search report has bee	n drawn up for all claims	90.00	
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	23 March 2004	Man	s-Kamerbeek, M
X : parti Y : parti docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ment of the same category inological background written disclosure mediate document	T: theory or principle E: earlier patent doc after the filing dat D: document cited in L: document cited fo  &: member of the sa document	e underlying the ir ument, but publis e n the application or other reasons	nvention hed on, or

EPO FORM 1503 03.82 (P04C01)



**Application Number** 

EP 03 25 0629

CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
See sheet B  X All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.  As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.  Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:  None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention



# LACK OF UNITY OF INVENTION SHEET B

Application Number EP 03 25 0629

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-5, 15-21

A package, comprising a receptacle and a plastic zipper with a frangible connection and a zipper for such package

2. Claims: 6-14

Method of manufacturing a plastic zipper, comprising the steps of extruding and joining of profiles and a layer of material

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

EP 03 25 0629

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.

23-03-2004

Patent docume cited in search re		Publication date		Patent family member(s)	Publication date
EP 0443867	A	28-08-1991	CA EP JP	2035195 A1 0443867 A1 4215954 A	23-08-1991 28-08-1991 06-08-1992
EP 0302144	A	08-02-1989	US AT DE DE DK DK EP ES ES FIO	4925316 A 73085 T 3777176 D1 3789974 D1 3789974 T2 71193 A 688687 A 0302144 A2 0456277 A2 2029824 T3 2056527 T3 875682 A ,B, 875398 A ,B,	15-05-1990 15-03-1992 09-04-1992 07-07-1994 03-11-1994 15-06-1993 07-02-1989 13-11-1991 01-10-1992 01-10-1994 07-02-1989
US 5725312	A	10-03-1998	US US US US US US US US US	5470156 A 5509735 A 5489252 A 5551127 A 5647671 A 5486051 A 5513915 A 5887980 A 5893645 A 5904425 A	28-11-1995 23-04-1996 06-02-1996 03-09-1996 15-07-1997 23-01-1996 07-05-1996 30-03-1999 13-04-1999
US 5092684	Α	03-03-1992	CA	2061481 A1	05-09-1992
US 3462332	Α	19-08-1969	FR DE GB	1470740 A 1629447 A1 1102970 A	24-02-1967 04-02-1971 14-02-1968
US 4540537	A	10-09-1985	AU AU BE CA CH DE DK FI FR GB IE	540476 B2 5693980 A 882517 A1 1140716 A1 636047 A5 3011371 A1 136280 A ,B, 800957 A ,B, 2452371 A1 2046660 A ,B	22-11-1984 02-10-1980 29-09-1980 08-02-1983 13-05-1983 02-10-1980 01-10-1980 24-10-1980 19-11-1980 02-10-1985

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

EP 03 25 0629

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.

23-03-2004

Patent docume cited in search re	port	Publication date	Patent family member(s)	Publication date
US 4540537	A	IT NL NO NZ SE SE	1127017 B 8001859 A ,B, 800864 A ,B, 193297 A 435153 B 8002384 A	21-05-198 02-10-198 01-10-198 16-03-198 10-09-198 01-10-198
			an Patent Office, No. 12/82	