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#### (54) Cushioned packaging materials

(57) A method of manufacturing cushioned packaging material (5,13,14) from paper, wherein an array of discrete portions (5a,5b) is formed over the majority of the surface area of the paper. Each of the discrete portions independently extends either above or below the

plane of the paper and thereby, in combination with the other discrete portions, provides a cushioning effect. A cushioned packaging material and paper packaging made from such material, including envelopes (15) and mailer bags, are also provided.

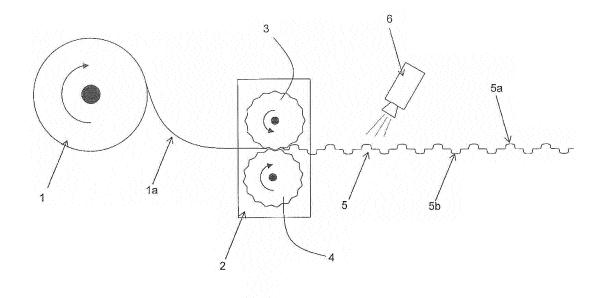


Fig. 1



### **EUROPEAN SEARCH REPORT**

Application Number EP 11 19 2609

Category	Citation of document with ir of relevant passa	ndication, where appropriate, ages		Relevant o claim	CLASSIFICATION OF THE APPLICATION (IPC)
Х	US 2004/076798 A1 ( ET AL) 22 April 200 * paragraphs [0002]	[LARSSON NILS-AKE [US]	] 1-	4,6-14	INV. B31D5/00
Х	US 997 994 A (HAHN 18 July 1911 (1911- * the whole documen	07-18)		4, 11,13,	
Х	US 2 036 051 A (KIE 31 March 1936 (1936	 FFER JOHN E) -03-31) line 1 - line 10 *		4, 11,14	
Х	US 2 978 006 A (LUD 4 April 1961 (1961-			4, 11,13,	
	* column 1, line 15 * column 2, line 41 * column 3, line 60 * figures 1-13 *	14	14	TECHNICAL FIELDS SEARCHED (IPC)	
Х	US 5 316 622 A (BABINSKY VLADISLAV A [US] ET AL) 31 May 1994 (1994-05-31)			4, 11,13,	B31F
	* column 3, line 31 * column 5, line 21 * figures 1-8 *	14	14		
	The present search report has t	<del>been drawn up for all claims</del>			
	Place of search	Date of completion of the search	:h		Examiner
	Munich	20 March 2012		Sun	dqvist, Stefan
X : part Y : part	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another to the same category	T : theory or pri E : earlier pate after the filin her D : document o L : document o	nt documer g date ited in the	nt, but publis application	



Application Number

EP 11 19 2609

CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing claims for which payment was due.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.
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:
1-3, 7, 8, 10, 12, 14(completely); 4, 6, 9, 11, 13(partially)
The present supplementary 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 (Rule 164 (1) EPC).



## LACK OF UNITY OF INVENTION SHEET B

**Application Number** 

EP 11 19 2609

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: 1-3, 7, 8, 10, 12, 14(completely); 4, 6, 9, 11, 13(partially)

Cushioned packaging material, its manufacture as well as a package.

1.1. claims: 1-3, 7, 8, 10(completely); 9(partially)

Embossed cushioned packaging material and its manufacture from plain paper, chemically treated paper or laminated paper.

1.2. claims: 4, 11(all partially)

Hemi-spherical, square, triangular, circular, rectangular or diamond cushion shape of cushioned packaging material and its manufacture.

1.3. claims: 6, 13(all partially)

Strenghtened cushioned packaging material (and its manufacture) by an additional paper or plastic layer (claims 6 and 13).

1.4. claim: 12

Thickness of cushioned packaging material.

1.5. claim: 14

Cushioned paper packaging.

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2. claims: 4, 11(all partially)

Pyramidal cushion shape of cushioned packaging material and its manufacture.

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3. claims: 5(completely); 6, 13(partially)

Strenghtened cushioned packaging material (and its manufacture) by hardening solution (claim 5) or by an additional rubber, metal or fabric layer (claims 6 and 13).

4. claim: 9(partially)

Cushioned packaging material from metalised paper.

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# LACK OF UNITY OF INVENTION SHEET B

**Application Number** 

EP 11 19 2609

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:
5. claim: 15
Cushioned paper bag or envelope.
Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

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

EP 11 19 2609

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.

20-03-2012

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FORM P0459

 $\stackrel{\bigcirc}{\mathbb{Q}}$  For more details about this annex : see Official Journal of the European Patent Office, No. 12/82