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(54) Title: FOOD AND BEVERAGE CONTAINERS AND METHODS OF COATING

(57) Abstract: Food and beverage containers and methods of coating are provided. The food and beverage containers include a metal substrate that is at least partially coated with a coating prepared from a composition that includes a resin system, a crosslinker, and a catalyst. Preferably, the coating composition is substantially Bisphenol A-free.



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# INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b>				
INV. B32B27/36	B64D25/14	B65D23/02		
C09D133/10	C09D133/12	C09D163/00		
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<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) C09D B65D B32B				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	WO 2005/080517 A (VALSPAR SOURCING INC [US]; BARIATINSKY IGOR [FR]; CHARLESTON ALISTAIR) 1 September 2005 (2005-09-01) page 1, lines 10-19 page 26, lines 20-26 pages 64-75; example 3 pages 76-82; example 4 claims 1-3	1-43		
Y	US 2005/249879 A1 (JENKINS STEVEN A [GB] ET AL) 10 November 2005 (2005-11-10) paragraphs [0025], [0027], [0038]; examples 1-3 claims 1,2,21	1-43		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <span style="margin-left: 200px;"><input checked="" type="checkbox"/> See patent family annex.</span>				
* Special categories of cited documents :				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;">                     *A* document defining the general state of the art which is not considered to be of particular relevance                      *E* earlier document but published on or after the international filing date                      *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)                      *O* document referring to an oral disclosure, use, exhibition or other means                      *P* document published prior to the international filing date but later than the priority date claimed                 </td> <td style="width: 50%; border: none; vertical-align: top;">                     *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention                      *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone                      *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.                      *&amp;* document member of the same patent family                 </td> </tr> </table>			*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family			
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## INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 507 339 A (CARBO ADELAIDA L [US] ET AL) 26 March 1985 (1985-03-26) column 1, lines 9-18 column 2, lines 43,44 column 4; tables 1,2 claims 1,8-10	1-43
Y	US 2003/059561 A1 (UEDA TOSHIHIRO [JP] ET AL) 27 March 2003 (2003-03-27) paragraph [0002]; examples 1-12; tables 1-3 claim 1	1-43
Y	US 2006/135678 A1 (KATO ATSUYA [JP] ET AL) 22 June 2006 (2006-06-22) paragraphs [0001], [0127], [0128], [0135] examples 1-6; table 2 claim 1	1-43

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/078728

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005080517 A	01-09-2005	AU 2005214337 A1	01-09-2005
		CA 2555242 A1	01-09-2005
		CN 1946819 A	11-04-2007
		EP 1718709 A1	08-11-2006
		JP 2007521996 T	09-08-2007
		KR 20070001160 A	03-01-2007
US 2005249879 A1	10-11-2005	EP 1765945 A1	28-03-2007
		WO 2005111161 A1	24-11-2005
US 4507339 A	26-03-1985	NONE	
US 2003059561 A1	27-03-2003	AT 355344 T	15-03-2006
		AU 785488 B2	15-11-2007
		AU 4578602 A	12-12-2002
		CN 1390748 A	15-01-2003
		DE 60218381 T2	06-12-2007
		EP 1264869 A2	11-12-2002
		HK 1052490 A1	13-07-2007
		JP 3504635 B2	08-03-2004
		JP 2002361784 A	18-12-2002
		US 2006135678 A1	22-06-2006
CN 1789350 A	21-06-2006		
FR 2879609 A1	23-06-2006		
GB 2421733 A	05-07-2006		
JP 2006169396 A	29-06-2006		