(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 17 April 2008 (17.04.2008)

(10) International Publication Number WO 2008/045600 A3

(51) International Patent Classification:

(21) International Application Number:

PCT/US2007/071312

(22) International Filing Date: 15 June 2007 (15 06 2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/548,194 10 October 2006 (10 10 2006) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

US 11/548,194 (CON) Filed on 10 October 2006 (10 10 2006)

(71) **Applicant** (for all designated States except US): **ROBERT GORDON INDUSTRIES, LTD.** [US/US], Robert Gor don Industπes, Ltd , 1500 Plaza Ave , New Hyde Park, New York 11040 (US)

(72) Inventor; and

(75) Inventor/Applicant (for US only): GLUCK, Robert [US/US], 7 Sealy Dπve, Laurence, New York 11559 (US)

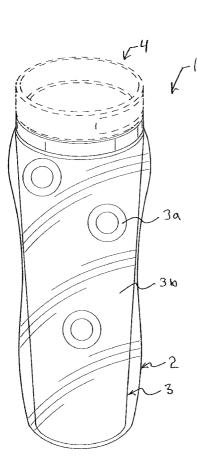
(74) Agents: MUELLER, Robert, W. et al, Greenblum & Bernstein PLC, 1950 Roland Clarke Place, Reston, Virginia 20191 (US)

(81) **Designated States** (unless otherwise indicated for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: METHOD OF MAKING A DUAL WALL CONTAINER WITH HEAT ACTIVATED AND/OR TEMPERATURE CHANGE ACTIVATED COLOR CHANGING CAPABILITY



(57) Abstract: Method of making a dual wall container (1) that in cludes an outer wall (2) that is at least one of at least partially substantially transparent and at least partially substantially translucent, an inner wall (3) adapted to contain a substance, at least one symbol (3a) arranged an outer surface (3b) of the inner wall (3), and at least one of a coating of a thermochromatic composition arranged on the outer surface (3b) of the inner wall (3), a thermochromatic composition layer arranged on the outer surface (3b) of the inner wall (3), and a thermochromatic composition arranged on an outer surface of at least the at least one symbol (3a) The thermochromatic composition is structured and arranged to change color when the inner wall experiences or senses a temperature change. This Abstract is not intended to define the invention disclosed in the specification, nor intended to limit the scope of the invention in any way



WO 2008/045600 A3



before the expiration of the time limit for amending the

claims and to be republished in the event of receipt of

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:

amendments

Published:

with international search report

16 October 2008

INTERNATIONAL SEARCH REPORT

Internationa! application No.

PCT/US07/71 3 12

					
A CLASSIFICATION OF SUBJECT MATTER IPC: B23P 25/00(2006.01);A47G 19/22(2006 01);B65D 65/00(2006.01);A47J 39/00(2006.01);F21V 9/16(2006.01)					
USPC 29/458;220/71 7,737,592. 17;362/84 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 29/458; 220/717,737,592 17, 362/84					
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 practicable, search terms used)					
c. Doci	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where approp π ate, of the relevant passages			Relevant to claim No	
Х	US 2005/0242 103 A1 (Thomas et al.) 03 November 2005 (03.11.2005), see claims 1-23.			1-5,7-15, 17-28,30-32	
Y	US 6,51 1,03 1 B2 (Lin) 28 January 2003 (28.01 .2003), see claim 12.			6,33	
Further	documents are listed in the continuation of Box C		See patent family annex	!	
* Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the		
		"X"	principle or theory underlying the invent	tion	
"E" earlier application or patent published on or after the international filing date		Λ	"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		
establish	establish the publication date of another citation or other special reason (as specified)		document of particular relevance, the cle considered (o involve an inventive step) with one or more other such documents,	when the document is combined	
"O" document			obvious to a person skilled in the art	ū	
"P" document published pnor to the international filing date but later than the priority date claimed		"&" document member of the same patent family			
Date of the actual completion of the international search			Date of mailing of the international search report AUG 2000		
			d officer		
Mail Stop PCT, Attn ISA/US		Authorized officer 1 Thisley 600			
Commissioner for Patents PO Box 1450		Authorized officer DAVID BRYANT J. Junley for			
Alexandria, Virginia 223 13-1450 Telephone No. 571-273-8300					
Facsimile No	Facsimile No. (57 1) 273-3201				

Form PCT/ISA/2 10 (second sheet) (April 2007)