

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 June 2002 (13.06.2002)

PCT

(10) International Publication Number
WO 02/046292 A3

(51) International Patent Classification⁷: C08K 3/26, C08L 27/00

(21) International Application Number: PCT/US01/45405

(22) International Filing Date: 3 December 2001 (03.12.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/732,820 8 December 2000 (08.12.2000) US

(71) Applicant: LONGWOOD INDUSTRIES, INC.
[US/US]; 325 Columbia Turnpike, Florham Park, NJ 07932 (US).

(72) Inventors: HARTNETT, James, J.; P.O. Box 58, Maple Leaf Farm, Green Village, NJ 07935 (US). SMITH, Benny; 344 Brooksideourt, Kernersville, NC 27284 (US).

(74) Agents: COHEN, Harvey, L. et al.; Lerner, David, Littenberg, Krumholz & Mentlik, LLP, 600 South Avenue West, Westfield, NJ 07090 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
15 August 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 02/046292 A3

(54) Title: MOLDED OBJECTS

(57) Abstract: A mixture comprising at least one vulcanizable elastomer, preferably in a mixture with a thermoplastic polymer, at least one mineral filler preferably including clay, at least one pigment or colorant preferably including red iron oxide, and optionally at least one odor making agent preferably including an extract of vanilla. The mixture can be molded and, after the addition of other suitable ingredients, can be vulcanized, thereby producing an object having the look and feel of natural clay, but having improved low temperature and mechanical stability. Molded objects made from the composition such as plant pots and saucers, wine bottle coolers, trivets, and other objects that typically are made from natural terra cotta or clay, have aesthetically pleasing characteristics as well as improved properties.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/45405

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C08K 3/26; C08L 27/00
US CL : 524/426, 427, 521, 525, 527

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. : 524/426, 427, 521, 525, 527

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)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 6,220,323 A (SANDSTROM et al.) 24 April 2001 (24.04.2001), Columns 5-8.	1-24
X	US 5,807,941 A (TSUJI et al.) 15 September 1998 (15.09.1998), columns 10-14.	1-24
X	US 5,416,146 A (KUSHIDA et al.) 16 May 1995 (16.05.1995), columns 5-8.	1-24

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	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 principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"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
"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)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 02 May 2002 (02.05.2002)	Date of mailing of the international search report 29 MAY 2002
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230	Authorized Officer Peter D. Mulcahy Telephone No. 703-308-2351