

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 January 2008 (31.01.2008)

PCT

(10) International Publication Number
WO 2008/014227 A3

(51) International Patent Classification:
C08G 18/28 (2006.01) **C08J 9/00** (2006.01)

(21) International Application Number:
PCT/US2007/074168

(22) International Filing Date: 24 July 2007 (24.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/820,175 24 July 2006 (24.07.2006) US

(71) Applicant (for all designated States except US): **HUNTS-
MAN PETROCHEMICAL CORPORATION** [US/US];
10003 Woodloch Forest Drive, The Woodlands, TX 77380
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RISTER, Ernest,
L.** [US/US]; 601 Quail Creek, Round Rock, TX 78664
(US). **HAMILTON, Alan, J.** [US/US]; 90 Marlberry
Branch, Spring, TX 77384 (US). **ROMERO, Richard, R.**
[US/US]; 5 Trammel Court, Spring, TX 77381 (US).

(74) Agent: **HOLTHUS, Robert**; Huntsman Corporation, Le-
gal Department, 10003 Woodloch Forest Drive, The Wood-
lands, TX 77380 (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, US, 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,
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).

Published:

— with international search report

(88) Date of publication of the international search report:
4 September 2008

(54) Title: LIGHT COLORED FOAM FOR USE IN MARINE APPLICATIONS

(57) Abstract: A foam includes a white color that is suitable for use in marine flotation devices. The foam includes a methylene diphenyl diisocyanate and polymethylene diphenyl diisocyanate. In some embodiments, the foam also includes a polyol, surfactant, catalyst, and blowing agent.

WO 2008/014227 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/74168

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **C08G 18/28**(2006.01);C08J **9/00**(2006.01)

USPC. 521/1 17,128,129, 170, 174

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. : 52 1/1 17, 128, 129, 170, 174

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. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,441,993 A (MARETTI) 15 August 1995(15.08. 1995), column 1 line 64-column 3 line 61, as well as, the entire document.	1-4, 7, 9, 10, 13-15, 17, and 19-20 ----- 5, 6, 8, 11, 12, 16, and 18
Y	US 5,420,170 A (LUTTER et al.) 30 May 1995 (30 05. 1995), column 8 line 50-column 9 line 21, as well as, the entire document	5, 6, 8, 11, 12, 16, and 18
Y	US 5,585,412 A (NATOLI et al.) 17 December 1996 (17. 12 1996), column 4 lines 1-18, as well as, the entire document.	5, 6, 8, 11, 12, 16, and 18

D Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents	"T"
"A" document defining the general state of the art which is not considered to be of particular relevance	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 04 June 2008 (04.06 2008)	Date of mailing of the international search report 20 JUN 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US Commissioner for Patents P O Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer John Cooney Telephone No. 703-306-5665 