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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 August 2008 (14.08.2008)

PCT

(10) International Publication Number
WO 2008/097643 A3

(51) International Patent Classification:
***B05D 3/00*** (2006.01) ***A41D 19/00*** (2006.01)

(21) International Application Number:
PCT/US2008/001705

(22) International Filing Date: 8 February 2008 (08.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/672,705 8 February 2007 (08.02.2007) US

(71) Applicant *(for all designated States except US)*: **ALLEGIANCE CORPORATION** [US/US]; 1430 Waukegan Road, McGaw Park, IL 60085-6787 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **WONG, Wei, Cheong** [MY/MY]; 265 Taman Rambai, Jalan Rambai 1 Kulim, Kedah (MY). **WAMG, Shiping** [US/US]; 1508 Forever Avenue, Libertyville, IL 60048 (US). **CHEN, Seong, Fong** [MY/MY]; 11a Gerbang Minden, 11700 Gelugor, Penang (MY). **CHONG, Chaung, Sim** [MY/MY]; 182 Main Road, Burkit Tengah, 14000 Burkit Mertajam, Seberang Peraj (MY).

(74) Agents: **BERMAN, Richard, J.** et al.; Arent Fox LLP, 1050 Connecticut Avenue N.W., Washington, DC 20036 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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:
5 March 2009

(54) Title: GLOVE COATING AND MANUFACTURING PROCESS

(57) Abstract: This invention relates to an elastomeric article with improved lubricity and donnability and reduced stickiness/tackiness. According to the methods of the invention, the internal surface of the elastomeric article is coated with a polyisoprene layer. The coating of the invention is formed from synthetic polyisoprene rubber that may or may not contain minor amounts of other components. The coating is preferably directly bonded to the underlying elastomeric article.

WO 2008/097643 A3

# INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/01705

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - B05D 3/00; A41D 19/00 (2008.04)
USPC - 427/2.1, 2.3
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)
427/2.1, 2.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
427/2.3,119,400,413 2/161.3,161.8, 106/14.42, 428/36.8

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB,USPT,EPAB,JPAB); Google Scholar
Search terms: gloves cot condom ?dental dam? coated coating skin lubricate lubricity rubber elastomeric don polyisoprene latex

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X<br>---<br>Y | US 20040126604 A1 (Wang et al.), 01 July 2004 (01.07.2004), para [0009]-[0011], [0016], [0021]-[0023], [0038]-[0039] | 1-3, 5, 7, 8, 11, 13<br>---<br>4, 6, 9, 10, 12, 14-17 |
| Y | US 20040169317 A1 (Wang et al.), 02 September 2004 (02.09.2004), para [0029]-[0030], [0040], [0057] | 10, 15-17 |
| Y | US 7,037,579 B2 (Hassan et al.), 02 May 2006 (02.05.2006), col 2 ln 18-32; col 3 ln 35-50; col 4 ln 12-25 | 4 |
| Y | US 5,284,607 A (Chen), 08 February 1994 (08.02.1994), col 3 ln 40-50 | 6 |
| Y | US 20060141186 A1 (Janssen et al.), 29 June 2006 (29.06.2006), para [0008]-[0010] | 9, 12, 14 |

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent 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

| Date of the actual completion of the international search | Date of mailing of the international search report |
|---|---|
| 12 November 2008 (12.11.2008) | 05 DEC 2008 |
| Name and mailing address of the ISA/US<br>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents<br>P.O. Box 1450, Alexandria, Virginia 22313-1450<br>Facsimile No. 571-273-3201 | Authorized officer:<br>Lee W. Young<br>PCT Helpdesk: 571-272-4300<br>PCT OSP: 571-272-7774 |

Form PCT/ISA/210 (second sheet) (April 2007)