

(2004070330)

02/12/04

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

(19) World Intellectual Property Organization
International Bureau

162162

(43) International Publication Date
18 December 2003 (18.12.2003)

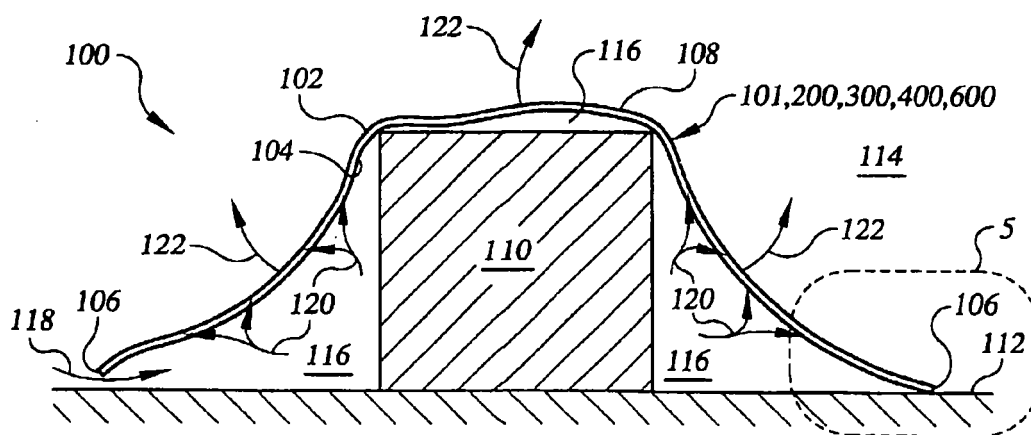
PCT

(10) International Publication Number
WO 03/103942 A1

- (51) International Patent Classification⁷: **B32B 3/02**, 5/26, 27/12
- (21) International Application Number: PCT/US03/17465
- (22) International Filing Date: 3 June 2003 (03.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/386,017 5 June 2002 (05.06.2002) US
10/229,096 27 August 2002 (27.08.2002) US
- (74) Agent: **MEIER, Lawrence, H.**; Downs Rachlin Martin PLLC, 199 Main Street, P.O. Box 190, Burlington, VT 05402-0190 (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, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, 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, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant: **CREARE INC.** [US/US]; Etna Road, P.O. Box 71, Hanover, NH 03755 (US).
- (72) Inventors: **ELKOUH, Nabil, A.**; 113 Main Street, Meriden, NH 03770 (US). **BREEDLOVE, Jeffrey, J.**; 5 Knob Hill Road, Grantham, NH 03753 (US). **PILVELAIT, Bruce, R.**; 30 Sunnyside Circle, Charleston, NH 03603 (US).
- Published:
— with international search report
— with amended claims

[Continued on next page]

(54) Title: PROTECTIVE COVER SYSTEM INCLUDING A CORROSION INHIBITOR



(57) Abstract: A protective cover system (100) for inhibiting corrosion of a metallic object. The protective cover system includes a cover (101, 200, 600) for defining a microenvironment and a corrosion inhibitor source for releasing one or more corrosion inhibitors into the microenvironment. In one embodiment, cover 200 comprises an outer liquid-impermeable layer (204), an inner liquid-permeable layer (202), and a superabsorbent layer (206) located between the outer and inner layers. In another embodiment, cover (600) includes a water-vapor-permeable layer (602) and a porous support layer (606) for supporting the water-vapor-permeable layer. In both of these embodiments, one or more corrosion inhibitors may be incorporated into the cover in one or more of the corresponding above-mentioned layers or in a layer separate from these layers, or may be provided in a separate container that fluidly communicates the corrosion inhibitor(s) to the microenvironment.



ACTION

WO 03/103942 A1

WO 03/103942 A1

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.