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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 October 2006 (05.10.2006)

PCT

(10) International Publication Number
WO 2006/102697 A1

(51) International Patent Classification:
G01N 33/52 (2006.01) *G01N 33/53* (2006.01)

(21) International Application Number:
PCT/AU2005/001072

(22) International Filing Date: 21 July 2005 (21.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/665,824 28 March 2005 (28.03.2005) US
60/676,248 29 April 2005 (29.04.2005) US

(71) Applicant *(for all designated States except US)*: **ROCKEBY BIOMED CORPORATION LTD** [SG/SG]; 5 Shenton Way, #28-09, DBS Bldg., Tower 2, 068809 Singapore (SG).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **TAN, Sze, Wee** [SG/SG]; 90 Holland Road, #01-03, 278535 Singapore (SG). **WARMINGTON, John, Rodney** [AU/AU]; 2 Athel Court, LEEMING, W.A. 6149 (AU). **TAN, Ai-Teck** [SG/SG]; 89 Marshall Road, #01-05, 424886 Singapore (SG). **MACKAY, Aaron, John** [AU/AU]; 180A Forest Lakes Drive, Thornlie, W.A. 6108 (AU).

(74) Agent: **GRIFFITH HACK**; Level 19, 109 St Georges Terrace, Perth, W.A. 6000 (AU).

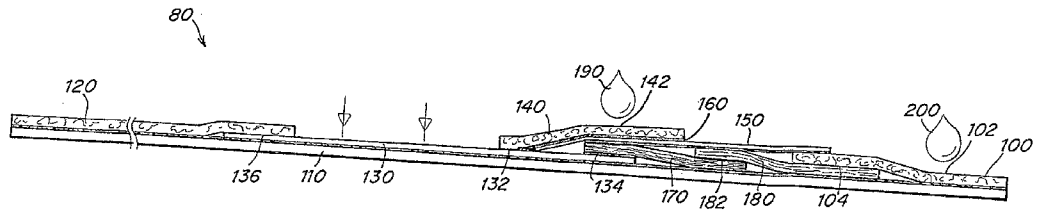
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK,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

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.

(54) **Title:** FLUID FLOW TEST STRIP FOR SELECT BIOLOGICAL SUBSTANCES



(57) **Abstract:** A fluid flow test device comprising: a chromatography path of aqueous wicking material (100) on which is deposited at an upstream site at a selected delivery time an aqueous biological sample (190) to be tested for the presence or absence of a target material; a capture material bound to the wicking material at a test site (T) downstream of the upstream site, the capture material having a functionality that binds to a first locus on the target material upon wicking of the target material downstream to the test site; a visual label material having a functionality that binds to a second locus on the target material, the chromatography path having a site (170) upstream of the test site at which the visual label material is begun to wick at a predetermined point in time after the first delivery time such that the visual label material does not intermix with the aqueous biological sample within the chromatography path.

WO 2006/102697 A1