

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 January 2018 (04.01.2018)



(10) International Publication Number
WO 2018/006059 A1

(51) International Patent Classification:
C09K 11/06 (2006.01) *C07D 219/12* (2006.01)

(21) International Application Number:
PCT/US2017/040457

(22) International Filing Date:
30 June 2017 (30.06.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/357,091 30 June 2016 (30.06.2016) US

(71) Applicant: **BECKMAN COULTER, INC.** [US/US]; 250
S. Kraemer Boulevard, Brea, CA 92821 (US).

(72) Inventor; and

(71) Applicant: **KOTI, Jaya, S.** [US/US]; c/o Beckman Coulter, Inc., 250 South Kraemer Boulevard, Brea, CA 92821 (US).

(72) Inventors: **DE SILVA, Renuka**; c/o Beckman Coulter, Inc., 250 South Kraemer Boulevard, Brea, CA 92821 (US). **EICKHOLT, Robert, A.**; c/o Beckman Coulter, Inc., 250 South Kraemer Boulevard, Brea, CA 92821 (US). **SANDISON, Mark, D.**; c/o Beckman Coulter, Inc., 250 South Kraemer Boulevard, Brea, CA 92821 (US). **SCHUMM, David, L.**; c/o Beckman Coulter, Inc., 250 South Kraemer Boulevard, Brea, CA 92821 (US). **XIE, Wenhua**; c/o Beckman Coulter, Inc., 250 South Kraemer Boulevard, Brea, CA 92821 (US).

(74) Agent: **KOWALCHYK, Katherine, M.**; Merchant & Gould P.C., P.O. Box 2903, Minneapolis, MN 55402-0903 (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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: CHEMILUMINESCENT SUBSTRATES

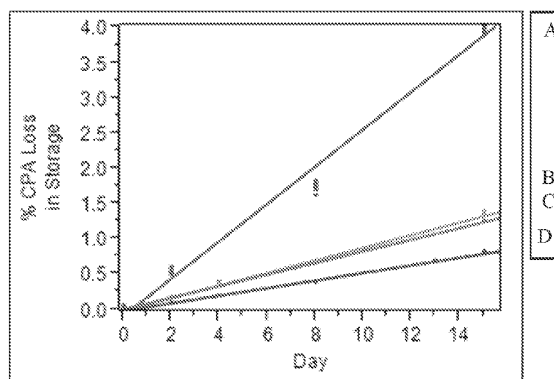


FIG. 9C

(57) Abstract: Alkaline phosphatase chemiluminescent substrate formulations are provided exhibiting rapid incubation periods and improved stability for use in immunoassays.

WO 2018/006059 A1