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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 February 2009 (12.02.2009)

PCT

(10) International Publication Number
WO 2009/019454 A1

(51) International Patent Classification:
B01L 3/00 (2006.01) *B01J 19/00* (2006.01)
B01L 7/00 (2006.01) *G01N 21/03* (2006.01)

(21) International Application Number:
PCT/GB2008/002631

(22) International Filing Date: 1 August 2008 (01.08.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0715170.7 3 August 2007 (03.08.2007) GB

(71) Applicant *(for all designated States except US)*: **ENIGMA DIAGNOSTICS LIMITED** [GB/GB]; Building 224, Tetricus Science Park, DSTL, Porton Down, Salisbury, Wiltshire SP4 0JQ (GB).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **LEE, Martin, Alan** [GB/GB]; Enigma Diagnostics Limited, Building 224, Tetricus Science Park, DSTL, Porton Down, Salisbury, Wiltshire SP4 0JQ (GB). **SQUIRRELL, David, James** [GB/GB]; Enigma Diagnostics Limited, Building 224, Tetricus Science Park, DSTL, Porton Down, Salisbury, Wiltshire SP4 0JQ (GB). **JONES, Ross, Peter** [AU/GB]; 84 Wulfstan Way, Cambridge CB1 8QH (GB). **WILLIAMSON, Roger, James** [GB/GB]; Abbey Dale, Hadham Cross, Much Hadham, Hertfordshire SG10 6AL (GB). **GREGORY, George, Richard** [GB/GB]; 24 Leete Place, Royston, Hertforshire SG8 5DX (GB). **GUTSELL, Graham** [GB/GB]; Enigma Diagnostics Limited, Building 24, Tetricus Science Park, DSTL Porton Down, Salisbury, Wiltshire SP4 0JQ (GB).

(74) Agent: **LELAND, Emma, Clare**; Greaves Brewster LLP, Indigo House, Cheddar Business Park, Wedmore Road, Cheddar, Somerset BS27 3EB (GB).

(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, ST, 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*

(54) **Title:** REACTION VESSEL COMPRISING CONDUCTIVE LAYER AND INNER NON-METALLIC LAYER

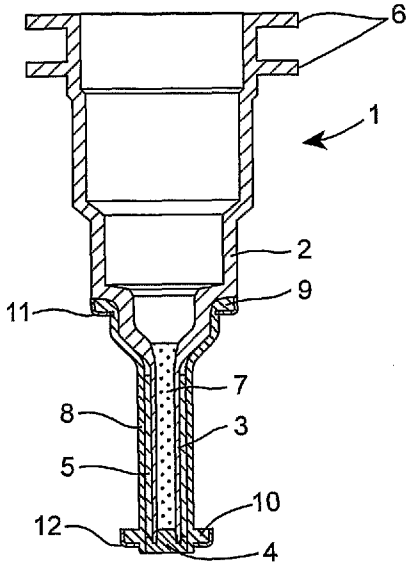


Fig. 1

(57) **Abstract:** A reaction vessel for conducting a chemical or biochemical reaction, such as a polymerase chain reaction wherein at least one wall of said vessel comprises a metallic layer and an inner non-metallic layer. Reaction systems comprising combinations of vessels of the invention and apparatus for heating them, as well as particular reactions vessels are also described and claimed.

WO 2009/019454 A1