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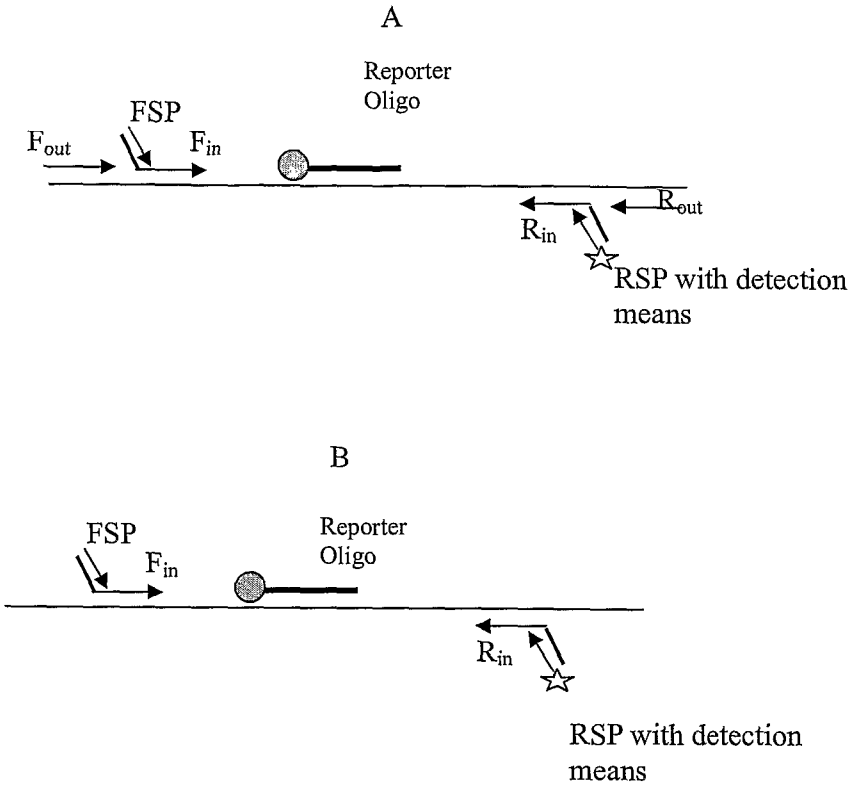
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(54) Title: METHOD AND KIT FOR PRIMER BASED AMPLIFICATION OF NUCLEIC ACIDS



(57) Abstract: Disclosed is a novel method for diagnosis or differential diagnosis of disease agents and secondary disease agents. The method disclosed uses a novel amplification strategy termed TemPCR to allow sensitive and specific amplification of target sequences from any disease agents and/or secondary disease agent whose nucleic acid sequence is known. The TemPCR method utilizes at least one set of target enrichment primers specific for the disease agent or secondary disease agent to be detected (present at a low concentration) and at least one pair of shared target amplification primers (present at high concentrations). At least one pair of said target enrichment primers comprises a binding sequence for the target amplification primers. Therefore, the use of the TemPCR method allows multiplex amplification reactions to be carried out without the need for empirical optimization of the multiplex amplification parameters. Methods for nucleic acid isolation and the detection of the target sequences are also disclosed for use with the TemPCR method.

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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations 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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, 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, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

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