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(71) Applicant *(for all designated States except US)*: **INGENEUS CORPORATION** [BB/BB]; Chancery House, High Street, Bridgetown (BB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **ERIKSON, Glen, H.** [—/—]; P.O. Box 799, Providenciales (TC). **DAKSIS, Jasmine, I.** [CA/CA]; 36 Cartier Crescent, Richmond Hill, Ontario L4C 2N2 (CA). **KANDIC, Ivana** [CA/CA]; 111 Ridelle Avenue, Apt. 906, Toronto, Ontario M6B 1J7 (CA). **PICARD, Pierre** [CA/CA]; 18 Pixley Private, Ottawa, Ontario K1G 4C5 (CA).

(74) Agent: **TENER, David, M.**; Caesar, Rivise, Bernstein, Cohen & Pokotilow, Ltd., Seven Penn Center, 1635 Market Street, 12th Floor, Philadelphia, PA 19103 (US).

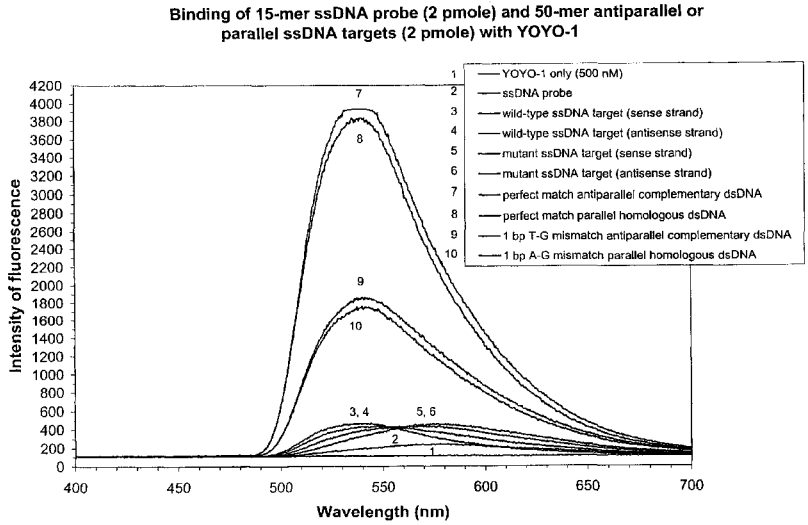
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(54) Title: PARALLEL OR ANTIPARALLEL, HOMOLOGOUS OR COMPLEMENTARY BINDING OF NUCLEIC ACIDS OR ANALOGUES THEREOF TO FORM DUPLEX, TRIPLEX OR QUADRUPLEX COMPLEXES



(57) Abstract: A complex includes: (1) a probe containing a heteropolymeric probe sequence of nucleic acids or nucleic acid analogues; and (2) a target containing a heteropolymeric target sequence of nucleic acids or nucleic acid analogues, wherein: (a) at least one of the probe and the target is purified or synthetic; and (b) the heteropolymeric probe sequence is bonded to the heteropolymeric target sequence by Watson-Crick complementary base interaction or by homologous base interaction, provided that when the complex is a duplex and the heteropolymeric probe sequence is antiparallel to the heteropolymeric target sequence, the heteropolymeric probe sequence is bonded to the heteropolymeric target sequence by homologous base interaction, and provided that when the complex is a triplex, the complex is free of recombination proteins. A method for assaying a target includes detecting formation of the complex.

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