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(54) **Title:** METHODS FOR ELECTROCHEMILUMINESCENCE DETECTION

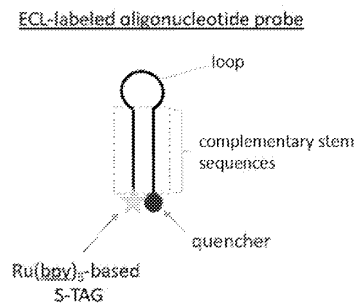
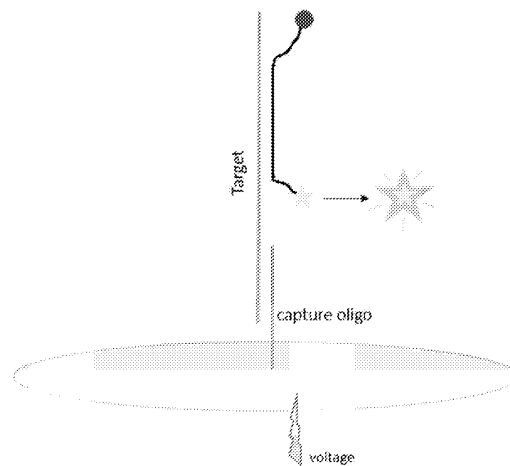


FIG. 14



(57) **Abstract:** The disclosure relates to novel compositions comprising an electrochemiluminescence (ECL) co-reactant. In embodiments, the composition further comprises an ionic component, a surfactant, or combination thereof. In embodiments, the ECL co-reactant is triethanolamine (TEA), tert-butylidethanolamine (tBDEA), methylidibutylethanolamine (MDEA), 3-[Bis-(2-hydroxy-ethyl)-amino]-propane-1-sulfonic acid (DEA-PS), or a combination thereof. Methods of using the compositions and kits comprising the compositions are also provided herein, including methods using ECL-labeled oligonucleotide probes having quenching moieties.

[Continued on next page]

SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
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