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(54) **AMPLIFICATION ASSAY FOR ANALYTE DETECTION**

(75) Inventors: **Jwa-Min Nam**, Seoul (KR); **John T. Groves**, Berkeley, CA (US)

Correspondence Address:
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET, FOURTEENTH FLOOR
IRVINE, CA 92614 (US)

(73) Assignee: **The Regents of the University of California**, Oakland, CA (US)

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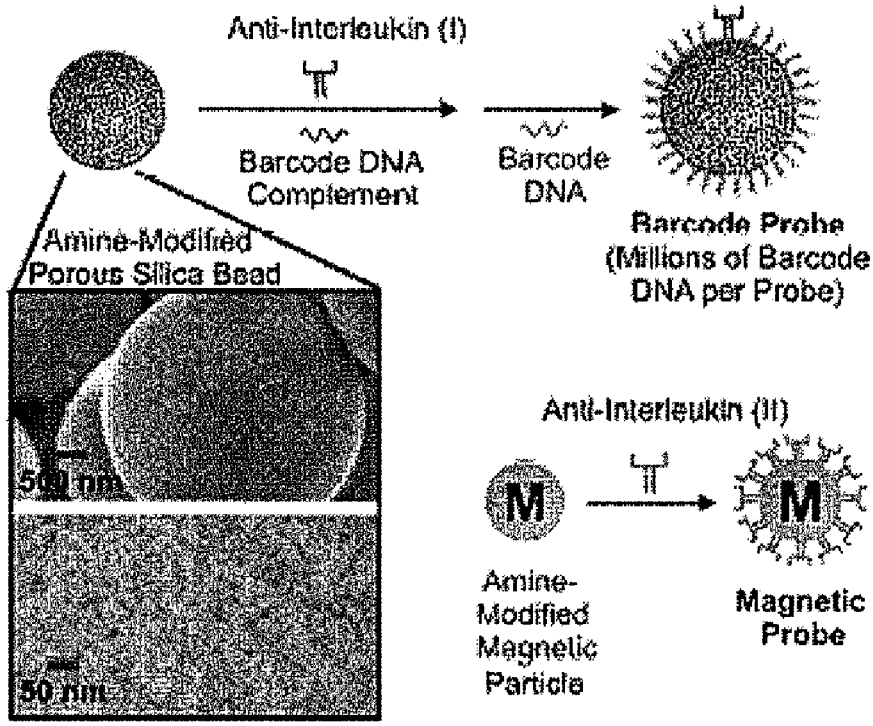
(57) **ABSTRACT**

The present invention provides a method for detecting an analyte of interest via a bio-barcode assay. The present invention provides a calorimetric bio-barcode method that is capable of detecting minute concentrations of an analyte by relying on porous particles, which enable loading of a large number of barcode DNA per particle, and a metal particle-based colorimetric barcode detection method.