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(54) Title: METHOD FOR DETECTING ANALYTES

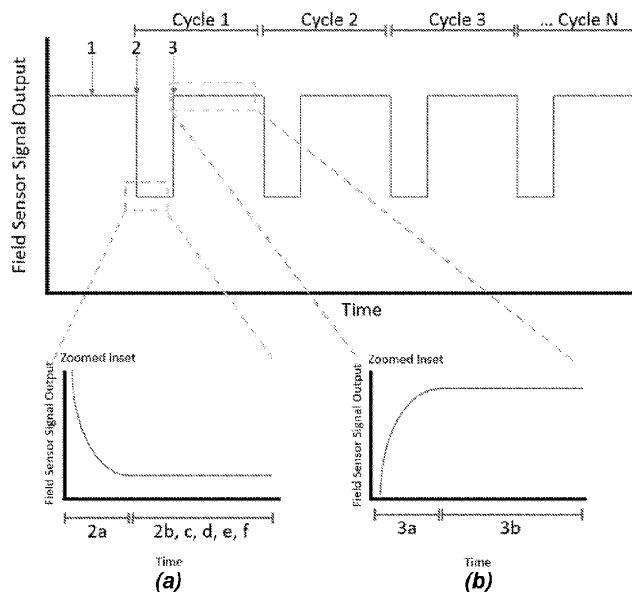


Figure 1

(57) **Abstract:** The present disclosure provides a method for detecting a target analyte in a sample, the method comprising: a) providing a quantity of magnetisable particles having a reference magnetic signal that is known or measured before or after the sample is added, the particles being coated with binding molecules complementary to the target analyte, b) bringing the sample comprising the target analyte into contact with the magnetisable particles resulting in bound and unbound binder complexes, c) applying a magnetic field to the sample for a period of time, d) obtaining a magnetic signal, the magnetic signal being the magnetic signal of the bound and unbound binder complexes in the presence of the magnetic field, e) removing the magnetic field for a period of time, and f) comparing the reference magnetic signal and the magnetic signals, wherein a difference between the reference magnetic signal and the magnetic signal correlates to the presence and/or quantity of the target analyte in the sample.

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