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(54) **APPLICATION OF BIOSENSORS FOR
DIAGNOSIS AND TREATMENT OF DISEASE**

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435/7.1; 435/7.9; 435/7.92; 436/164; 436/172;
436/524; 436/528; 436/805; 436/811; 436/815;
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(57) **ABSTRACT**

A method for detecting compounds of interest in bodily
fluids, including exhaled breath and blood. The present
invention uses biosensors that mimic naturally occurring
cellular mechanisms, including RNA oligonucleotide chains
or "aptamers," in combination with molecular beacons or
nanotechnology to provide an effective and efficient method
for diagnosing a condition and/or disease within a patient.
The subject invention also provides a method for screening
those analytes/biomarkers likely to be present in exhaled
breath.

2 Claims, No Drawings