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(54) Title: SYSTEM AND METHOD FOR IN SITU MEASURING AND COLLECTING SAMPLES OF ANALYTE CONCENTRATION IN BODILY FLUIDS

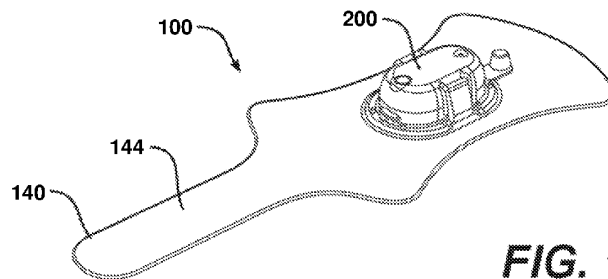


FIG. 1

(57) Abstract: A system and related methods include a durable component, an indicator component including an indicator zone comprising at least one colorimetric analyte sensing element, at least one moisture sensor, and a fluid collection reservoir. The durable component contains at least one spectrophotometer, a computing system, and means for electronic communication between the computing system and at least one external device. The indicator component includes at least one colorimetric analyte sensing element and a fluid transport layer in fluid communication with the indicator zone, and it is arranged and configured for attachment to the durable component. In addition, the moisture sensor is arranged and configured to communicate the presence of moisture to initiate a predetermined delay in measuring the concentration of at least one analyte. The fluid collection reservoir is releasable from at least one of the indicator components and the durable component at a predetermined breaking point for clinical analysis.



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