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(71) Applicant: SENTEC PTE. LTD. [SG/SG]; 35 Selegie Road, #10-05 Parklane Shopping Mall, Singapore 188307 (SG).

(72) Inventor; and

(71) Applicant (for US only): AZARNIA, Roobik [US/US]; 5911 SW 81st Street, Miami, FL 33142 (US).

(72) Inventor: RAY, Robert, Allen; 4532 SW Gray Court, Port Saint Lucie, FL 34953 (US).

(74) Agent: HARRIS, Sonya C.; Invention Services, 185 Ajk Blvd #246, Lewisburg, PA 17837 (US).

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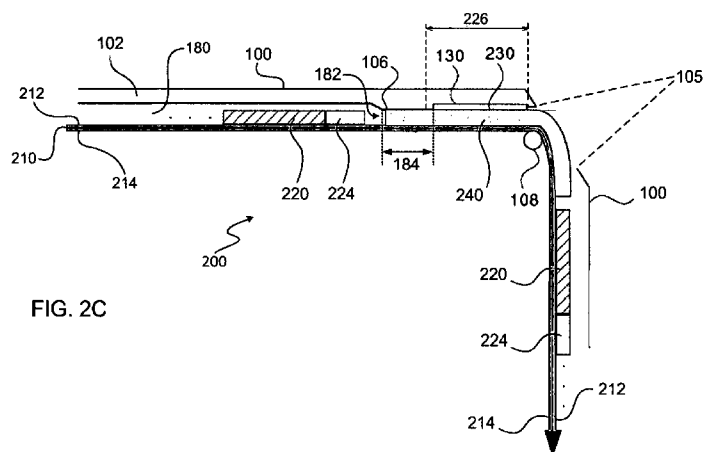


FIG. 2C

(57) Abstract: A replaceable cartridge for a biological analyte measurement device includes housing configured for removable engagement therefrom, and a support medium disposed within the housing. The support medium carries test pads made of a thin layer of fluid transporting material, and hermetic isolation pads made of a fluid impermeable material. The housing provides a port through which test pads are exposable to an external environment; and a set of sealing elements that define a cross sectional area within a channel internal to the housing, through which the support medium, test pads, and hermetic isolation pads are displaceable. Engagement of a hermetic isolation with the set of sealing elements results in the formation of a hermetic seal within the housing. Hermetic isolation pads can be formed as portions of cleanse pads that can be wiped across surfaces corresponding to a set of sensors, or as sealing pads separate from cleanse pads.