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(54) Title: MULTIPLE LAYER GEL

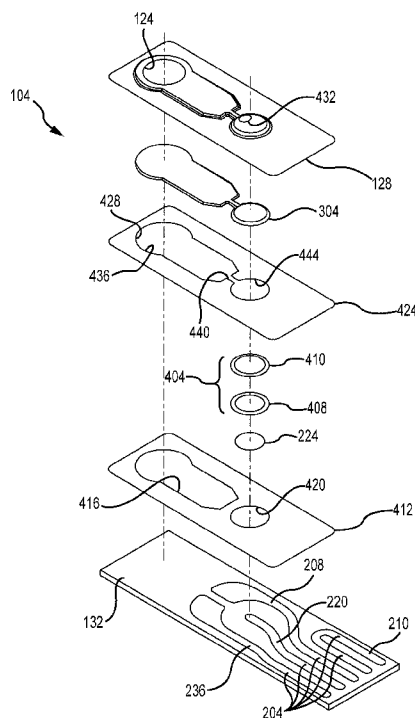


FIG. 4

(57) Abstract: A multiple layer gel and method for forming a multiple layer gel are provided. The multiple layer gel includes an isolation layer and an electrolyte layer. The isolation layer provides a molecular weight screen, to prevent proteins or other molecules from contacting a reference cell covered by the isolation layer. The electrolyte layer covers the isolation layer, and provides a source of ions that place the reference cell in ionic and/or electrical contact with a fluid sample. The multiple layer gel can be used to maintain a reliable reference voltage from an associated reference cell while an electrical potential or other electrical characteristic of a sample fluid is being determined.



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