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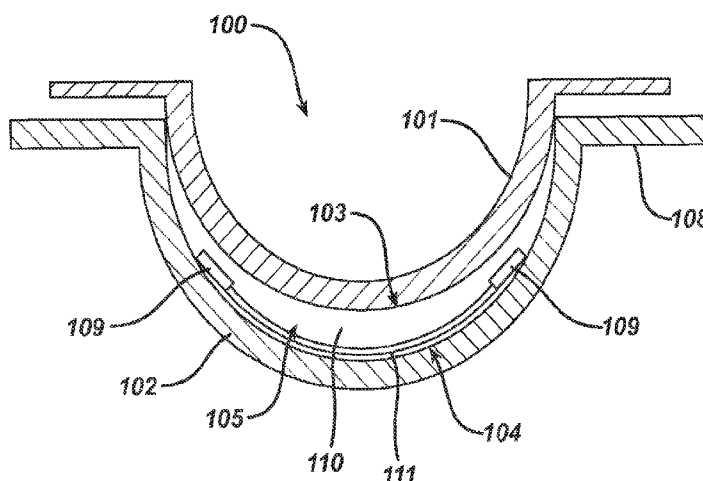
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(54) Title: MULTIPLE ENERGIZATION ELEMENTS IN STACKED INTEGRATED COMPONENT DEVICES



(57) Abstract: This invention provides a stacked integrated component device with multiple energization elements comprising: a first layer comprising a first surface, and a second layer comprising a second surface, wherein at least a portion of the first surface lays above at least a portion of the second surface; at least one electrical connection between an electrical contact on the first surface and an electrical contact on the second surface; at least one electrical transistor, wherein the electrical transistor(s) are comprised in the stacked integrated component device; at least a first and a second discrete energization elements, wherein the discrete energization elements are comprised in either or both of the first and second layers; and self-test circuitry comprising a sensing element configured to detect current flowing through the energization elements, the self-test circuitry being configured to determine if one of the energization elements is causing an excessive current draw condition.

