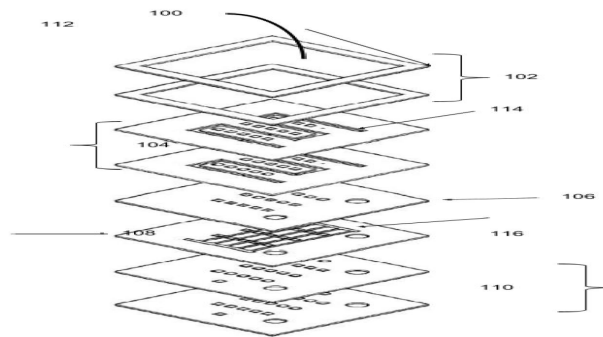


## A PEM Cell with Uniform Heating

The portable PEM fuel cell comprises at least one first layer having a first cavity. Further, at least one second layer mounted below the at least one first layer. The at least one second layer further comprise a plurality of channels with a serpentine structure. Further the portable PEM fuel cell comprises a third layer. Further, a fourth layer is mounted below the third layer. The fourth layer comprises a plurality of resistive strip mounted on a first side and a second side. Further the portable PEM fuel cell comprises at least one fifth layer mounted below the fourth layer. The at least one fifth layer may further comprise at least four heater inputs and at least four thermistor outputs.



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