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[Continued on next page]

(54) Title: FLOW FIELDS FOR USE WITH AN ELECTROCHEMICAL CELL

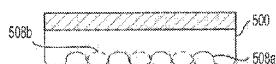


FIG. 5A

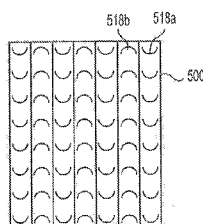


FIG. 5B

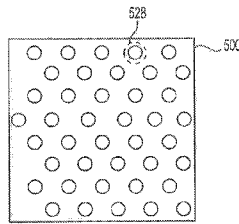


FIG. 5C

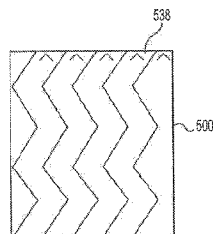


FIG. 5D

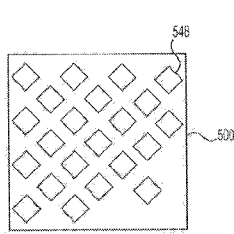


FIG. 5E

(57) Abstract: A flow field for use in an electrochemical cell is disclosed. The flow field includes a porous metallic structure including an inlet port and a plurality of channels stamped in the structure. The plurality of channels is in fluid communication with the inlet port to receive a reactant gas and configured to cause the reactant gas to diffuse through the porous metallic structure between adjacent channels.



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