

## **Tunable Thin Liquid/Gas Diffusion Layers for Electrolyzers**

### **Disclosure Number**

201102662

### **Technology Summary**

This invention improves on the Liquid/gas diffusion layers (LLGDLs) that are located between the catalyst layer and the flow field/current collector in an electrolyzer. The role of the LGDL is to transit fuel, electrons, heat and products, with minimum voltage, current, thermal and fluidic loss. Effective diffusion media will promote a uniform current/thermal distribution at the adjacent catalyst layer. With the development of micro/nano technology, which has the advantages of high precision, good repeatability and repeatable batch-production, several solutions for better thermal and electrical conductivity, mass transport and permeability will become possible.

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