

## Using Freeform Fabrication to Manufacture Fluidic Articles

### **Disclosure Number**

201002511

### **Technology Summary**

This invention merges fluid power with emerging additive manufacturing techniques. Additive manufacturing produces components layer by layer and is known to create complex articles. Freeform fluidics blends the fluid passages, actuators, pumps and control elements into a single component to minimize waste and reduce weight. It eliminates the need for hoses or complex cross drilled holes for passage of fluid through a structure. This approach to manufacturing fluid powered components and systems will reduce machining costs and part count, increasing reliability.

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