

## High-Throughput Polymer Deposition Enabled by Transient Reactions

### Disclosure Number

201503468

### Technology Summary

This invention is an additive manufacturing that builds objects using a 2-part thermoset polymer. This process uses tunable reaction kinetics providing a transient reaction. The deposition of material on top of layers which are not fully cured allows for crosslinking between layers which results in a higher lamination strength than traditional additive manufacturing processes. The addition of viscosifiers allows the rheology of the components to be tuned as needed. The end result is a scalable process that has been demonstrated at the small scale and will be adapted to larger scale systems such as BAAM.

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