

Method and Materials for Large Scale Polymer Additive Manufacturing

Disclosure Number

201303151

Technology Summary

The invention relates to additive manufacturing and more specifically to apparatuses and methods for producing large parts with high deposition rates. This particular disclosure covers the process and methodology associated with the large scale deposition of polymers to form complex shapes. Specific contributions include the utilization of fiber reinforced polymers for manufacture at room temperature, integration of cutting heads to increase surface finish, and variations in the kinematic structure to handle the high variation in part weight (from zero to 10's of tons).

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