

A Build Platform that Provides Mechanical Bonding with Additive Manufacturing Prints

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Technology Summary

The invention relates to additive manufacturing and more specifically to a captive build platform for holding a part. A build surface with unique geometry is provided to allow the first layer of an additively manufactured part to be captively affixed to the build platform. Such build platform geometry relies not on the adhesion between the printing material and the build surface, but on the captivity of build material by the build surface. Capturing the first layer of an additively-manufactured part in this manner will prevent delamination of the part during the build as well as combat warping of the part as the part cools.

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