

Electro-Magnetic Constriction of Materials Processed with Fused Deposition Modeling (FDM)

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Technology Summary

Materials processed with fused deposition modeling (FDM) contain voids and air pockets that are detrimental to final mechanical properties. The invention comprises apparatus and methods for electro-magnetic constriction, which can be used to remove such voids during material deposition or after the part is produced. The invention enables the use of FDM techniques for fabrication of improved, robust components for high-stress structural applications, for example.

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