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# HIGH FIDELITY 3D PRINTING THROUGH COMPUTED AXIAL LITHOGRAPHY

Tech ID: 32285 / UC Case 2021-107-0

#### PATENT STATUS

Country	Туре	Number	Dated	Case
Patent Cooperation Treaty	Published Application	WO 2023/081404	05/11/2023	2021-107

Additional Patent Pending

#### **BRIEF DESCRIPTION**

The inventor has developed novel algorithms and metrology methodologies, including real-time in-situ imaging of part formation, in computed axial lithography printing (CALP). CALP is a form of continuous 3D roll-based additive manufacturing which is distinct from roll-based micro/nanomanufacturing methods such as imprint lithography, gravure printing, and photo-roll lithography because it enables production of high aspect ratio reentrant features and voids in a single step that are difficult or even impossible with the existing methods.

#### SUGGESTED USES

The invention has applications in mechanical metamaterials, microfluidics, 3D tissue culturing, and desalination.

### **ADVANTAGES**

This technology enables production of high aspect ratio reentrant features and voids in a single step that are difficult or even impossible with the existing methods

# RELATED MATERIALS

#### CONTACT

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#### **INVENTORS**

» Taylor, Hayden K.

#### OTHER INFORMATION

KEYWORDS

3D Printing

#### **CATEGORIZED AS**

- » Environment
  - » Other
  - » Remediation
- » Engineering
  - » Engineering
- » Materials & Chemicals
  - » Other
- » Medical
  - >> Other

**RELATED CASES**2021-107-0

## ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Computed Axial Lithography (CAL) For 3D Additive Manufacturing
- ▶ System And Method For Tomographic Fluorescence Imaging For Material Monitoring



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