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**Request Information** 

## 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	Reference for National Filings	WO 2023/081404	05/11/2023	2021-107
Patent Pending				
BRIEF DESCRIPTION				
The inventor has developed novel a	algorithms and metrology methodologies,	including real-time in-situ imag	jing of part formati	on, in computed
axial lithography printing (CALP). C	ALP is a form of continuous 3D roll-base	d additive manufacturing which	is distinct from rol	l-based
micro/nanomanufacturing methods	such as imprint lithography, gravure print	ing, and photo-roll lithography	because it enables	s production of
high aspect ratio reentrant features	and voids in a single step that are difficu	It or even impossible with the e	xisting methods.	
SUGGESTED USES				
The invention has applications in m	echanical metamaterials, microfluidics, 3	D tissue culturing, and desaling	ation	
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ADVANTAGES				
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i his technology enables production	i or nign aspect ratio reentrant features a	nd voids in a single step that ar	e difficult or even i	mpossible with
the existing methods				

#### RELATED MATERIALS

### CONTACT

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Permalink

## 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
- Roll-To-Roll Based 3D Printing Through Computed Axial Lithography
- System And Method For Tomographic Fluorescence Imaging For Material Monitoring



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