

Morphable 3D Printers for Additive and Subtractive Manufacturing

Track Code: 2020-MALS-68950

Categories:

- Materials and Manufacturing
- Mechanical Engineering

Keywords:

- 3D Printing
- Additive Manufacturing
- Defense & Space
- Electronics
- Food Industry
- Food Production
- Food Safety
- Implants
- Manufacturing
- Materials and Manufacturing
- Mechanical Engineering
- Military
- Munition Systems
- Public Safety

Researchers at Purdue University have developed a new approach to integrated additive and subtractive manufacturing, referred to as convergent manufacturing. The method allows for 3D printing between different products. The technology morphs into different modes depending on its intended use.

Advantages:

- Efficient
- Versatile
- Improves Public Safety

Potential Applications:

- Military/Defense
- 3D Printing Food
- Biomedical
- Electronics and Computer Hardware

People:

- Malshe, Ajay P (Project leader)
- Malshe, Harshavardhan A

Intellectual Property:

Application Date: February 10, 2021

Type: Utility Patent

Country of Filing: United States

Patent Number: (None)

Issue Date: (None)

Application Date: February 10, 2020

Type: Provisional-Patent

Country of Filing: United States

Patent Number: (None)

Issue Date: (None)

Contact OTC:

Purdue Office of Technology Commercialization

The Convergence Center

101 Foundry Drive, Suite 2500

West Lafayette, IN 47906

Phone: (765) 588-3475

Fax: (765) 463-3486

Email: otcip@prf.org