Device And Method For The Preparation And Operation On Biological Specimen

Tech ID: 33890 / UC Case 2018-845-0

BRIEF DESCRIPTION

This device offers a non-invasive solution for treating nasal airway obstructions, significantly improving recovery time and patient outcomes.

FULL DESCRIPTION

Researchers at UC Irvine developed a cutting-edge medical device equipped with a laser that can prepare and operate on biological specimens without damaging their surroundings. It can be used to heat, cool, vaporize, and stimulate cells, tissues, or bones, primarily as a less invasive alternative to septoplasty. This device enables precise manipulation of biological materials without the need for traditional surgical intervention.

SUGGESTED USES

- Treatment of nasal airway obstructions and deviated septum without invasive surgery.
- Application in other medical fields requiring manipulation of cells, tissues, and bones.
- Use in both clinical and surgical settings for a variety of procedures.
- Point-of-care operations, enhancing efficiency and patient comfort.

ADVANTAGES

- Non-invasive treatment option, reducing the risk associated with surgeries.
- Significantly shorter recovery times, with patients noticing improvements within days.
- Eliminates the need for anesthesia and the complications of surgical procedures.
- Flexible application for various biological specimens beyond nasal obstructions.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	11,458,575	10/04/2022	2018-845

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OTHER INFORMATION

CATEGORIZED AS

- **Biotechnology**
  - Health
- **Medical**
  - Devices
  - Disease: Respiratory and Pulmonary System
- **Sensors & Instrumentation**
  - Medical

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2018-845-0

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