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Affordable and Convenient Neurosurgical Simulator

Tech ID: 33447 / UC Case 2022-953-0

BRIEF DESCRIPTION

A cost-effective neurosurgical simulator designed to give neurosurgical residents and medical students a platform to practice and enhance their operative skills.

APPLICATIONS

Neurosurgical education for residents and students

Training module for surgery departments across hospitals and educational institutions

Specialized neurosurgical skills training centers

Medical devices market targeting surgical practice and enhancement

ADVANTAGES

- Affordable and cost-effective compared to current solutions
- Reusable and portable, making it more accessible for trainees
- Realistic in design, closely imitating human anatomy
- Provides essential haptic feedback, unlike AR and VR simulators
- Fosters rapidly acquired fundamental skills in a stress-free environment

Problems Solved:

Addresses the lack of practical resources for neurosurgical residents to train outside the operating room
Overcomes the limitations of expensive, single-use and portable-less training devices
Fills the gap created by expensive and less realistic AR/VR simulation modules
Eliminates constraints associated with cadaver-based workshops

FULL DESCRIPTION

This neurosurgical simulator serves as a hands-on, practical solution to the lack of resources for neurosurgical residents and students to train and hone their surgical skills outside the operating room. Unlike other alternatives, this device is affordable, portable, reusable and designed to imitate various neurosurgical procedures closely resembling human anatomy, thus providing essential haptic feedback.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Published Application	20230316954	10/05/2023	2022-953

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OTHER INFORMATION

CATEGORIZED AS

- » **Medical**
- » Other
- » Research Tools

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