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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

### RELATED CASES

2022-953-0

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