

FEATURED CONTENT / Synthetic Telepathy Patents

Synthetic Telepathy and Ultrasound Patents: Direct Communication and Noninvasive Neuromodulation

A focused patent guide to transcranial ultrasound, direct neural communication, cognitive effects, and noninvasive brain-computer interfaces.

CLASSIFICATION

Patent Research Series

PUBLISHED

2026-07-30

EDITION

CONTENT PDF

MAXISRICHARDS.COM

THE COMPLETE CONTENT

Synthetic Telepathy and Ultrasound Patents: Direct

Part 4 of 6 in the MaxisRichards.com Patent Research Series.

This entry focuses on transcranial ultrasound and direct-communication claims. It distinguishes noninvasive neuromodulation from the broader phrase "synthetic telepathy."

What a patent establishes: A patent records what an inventor claimed and disclosed. It does not, by itself, prove that every embodiment works as described, that a system was deployed operationally, or that it was used against any specific person. This series separates the patent record from interpretation.

Patent Records

Ultrasound can be focused deep into the brain with millimeter precision, noninvasively. These patents show that ultrasound is being developed not only for therapy but for cognitive enhancement, direct information transfer, and braincomputer interfacing.

US9729252B2 - "Method and system for direct

communication" (Tyler et al.)

* Inventors: William J. Tyler, Isy Goldwasser, Robert Muratore, Sumon Pal, Tomokazu Sato, Daniel Z. Wetmore

* Assignee: Cerevast Medical Inc.

* Filed: April 21, 2015 | Granted: August 8, 2017

* Summary: Information is translated into energy pulses and directed transcranially to a target brain region via ultrasound, producing a cognitive effect perceived as the information. Claim 3 lists possible effects: touch, auditory and visual perception, language comprehension, memory, emotion, attention, relaxation, fear, sleep state, risktaking, etc.

* TI community relevance: This is the closest patent to a "synthetic telepathy" transmitter. It claims the ability to place sensations, emotions, and even language directly into the brain using ultrasound.

* View patent

US20140194726A1 - "Ultrasound Neuromodulation

for Cognitive Enhancement" (Mishevich et al.,

abandoned)

* Inventors: David J. Mishelevich, Daniel Z. Wetmore, William J. Tyler, Tomo Sato

* Assignee: Neurotrek Inc. | Filed: January 4, 2013

* Summary: Noninvasive focused ultrasound upregulates or downregulates deepbrain activity for cognitive enhancement.

* View application

US20120197163A1 - "Patterned control of

ultrasound for neuromodulation" (Mishelevich,

abandoned)

* Inventor: David J. Mishelevich | Filed: January 27, 2012

* Summary: Patterned ultrasound inputs target deepbrain structures for short or longterm upregulation or downregulation.

* View application

US10035027B2 - "Device and method for

ultrasonic neuromodulation via stereotactic

frame based technique" (Deisseroth/Schneider)

* Inventors: Karl Deisseroth, M. Bret Schneider | Assignee: Leland Stanford Junior University

* Filed: October 31, 2008 | Granted: July 31, 2018

* Summary: Multiple focusedultrasound transducers placed at different scalp positions nondestructively modify neural transmission along connected brain targets.

* View patent

US20210353967A1 - "Methods and system for

selective and longterm neuromodulation using

ultrasound" (Yu et al.)

- * Inventors: Kai Yu, Xiaodan Niu, Bin He | Assignee: Carnegie Mellon University
- * Filed: October 11, 2019 | Published: November 18, 2021
- * Summary: Transcranial focused ultrasound stimulates different neuron types, modulates synaptic connectivity, and induces sustained neural effects after ultrasound ceases.
- * Government interest: NIH/DHHS confirmatory license.
- * View application

US20250001217A1 - "Systems and methods for

imaging and modulating the nervous system using

an ultrasoundbased braincomputer interface"

(Norman et al.)

- * Inventors: Sumner Lee Norman et al. | Assignee: Forest Neurotech LLC
- * Filed: June 29, 2024 | Published: January 2, 2025
- * Summary: Closedloop ultrasound imaging and neuromodulation, with data analyzed by artificial neural networks.
- * View application

Continue the Patent Research Series

Previous: Electromagnetic Patents Series Index Next: Subliminal Influence Patents

- * Voice-to-Skull Patents: Microwave Hearing and Radio-Frequency Auditory Effects
- * Remote Neural Monitoring Patents: Brainwave Sensing, Communication, and Inner-Voice Research
- * Electromagnetic Neuromodulation Patents: Nervous-System Effects, Sensory Resonance, and RF Systems
- * Synthetic Telepathy and Ultrasound Patents: Direct Communication and Noninvasive Neuromodulation

* Subliminal Influence Patents: Silent Messaging and Behavior-Modification Systems

* Dream and Sleep Manipulation Patents: REM Detection, Sensory Input, and Sleep-State Technology

Author's note: This content presents research, analysis, and opinion about public patent records. It is published for documentation, education, advocacy, and public discussion.