

FEATURED CONTENT / Electromagnetic Patents

Electromagnetic Neuromodulation Patents: Nervous-System Effects, Sensory Resonance, and RF

Patent records describing electromagnetic, magnetic, electric, thermal, and radio-frequency approaches to nervous-system modulation, sensory resonance, disorientation, and sleep.

CLASSIFICATION

Patent Research Series

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THE COMPLETE CONTENT

Electromagnetic Neuromodulation Patents: Nervous-System

Part 3 of 6 in the MaxisRichards.com Patent Research Series.

This entry gathers the electromagnetic and sensory-resonance patent cluster in one place, with special attention to claimed delivery method, distance, intended use, and stated physiological effect.

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

This is the largest and most disturbing cluster of patents. A single inventor- Hendricus G. Loos -filed a series of patents throughout the 1990s and early 2000s that describe how weak electric, magnetic, and thermal fields can excite "sensory resonances" in the human nervous system, producing a menu of physiological and psychological effects: relaxation, sleepiness, eyelid ptosis, sexual excitement, cortical slowing, dizziness, disorientation, and more. Several patents openly discuss lawenforcement and military standoff applications.

Key Loos Patents

Patent	Title	Grant Date	Key Claim
US6506148B2	Nervous system manipulation by electromagnetic fields from monitors	Jan 14, 2003	Pulsed monitor images produce weak lowfrequency EM fields that excite sensory resonances; warns of covert abuse via TV/video.
US5782874A	Method and apparatus for manipulating nervous systems	Jul 21, 1998	Weak fluctuating electric fields applied through afferent nerves to excite sensory resonances.
US5899922A	Manipulation of nervous systems by electric fields	May 4, 1999	Externally applied weak electric fields (contactless, via field electrodes) cause relaxation, sleepiness, sexual excitement, or cortical slowing.
US5935054A	Magnetic excitation of sensory resonances	Aug 10, 1999	Weak, near0.5 Hz magnetic fields influence the nervous system-relaxation, sleep, arousal.
US6238333B1	Remote magnetic manipulation of nervous systems	May 29, 2001	Remote manipulation using a rotating bar magnet at distances of several hundred meters; mentions lawenforcement standoff use.
US5800481A	Thermal excitation of sensory resonances	Sep 1, 1998	Thermal pulses applied via infrared laser or pulsed microwave; explicitly discusses remote covert

nonlethal weapon use to induce sleepiness, disorientation, cortical slowing. | | US6017302A | Subliminal acoustic manipulation of nervous systems | Jan 25, 2000 | Deeply subliminal atmospheric acoustic pulses near sensory resonances; law enforcement standoff embodiment intended to cause drowsiness and disorientation; mentions HVAC based covert delivery. | | US6091994A | Pulsative manipulation of nervous systems | Jul 18, 2000 | Deeply subliminal pulsed cooling of skin at sensory resonance frequencies; effects include sleepiness, dizziness, disorientation. | | US6081744A | Electric fringe field generator for manipulating nervous systems | Jun 27, 2000 | Fringe field generator for applying sensory resonance electric fields. | | US6167304A | Pulse variability in electric field manipulation of nervous systems | Dec 26, 2000 | Varied pulse shapes for enhanced nervous system effects. |

* TI community relevance: These patents describe precisely the symptom set reported by TIs: sudden unexplained drowsiness, disorientation, mood shifts, and sexual sensations induced without physical contact. The fact that Loos explicitly contemplates law enforcement and covert delivery scenarios validates the community's concern that the technology is not merely therapeutic.

Other Government Linked EM Manipulation Patents

US7841989B2 - "Electromagnetic personnel

interdiction control method and system" (Kiefer

et al.)

* Inventors: Karl F. Kiefer, Kevin Champaigne, Gulnara Ajupova

* Assignee: Invocon Inc. | Government funding: DoD SBIR (U.S. Marine Corps Systems Command)

* Filed: October 4, 2005 | Granted: November 30, 2010

* Summary: A beamed RF directed energy weapon designed to disrupt vestibular and sensory cell transduction, producing disorientation, confusion, incapacitation, motion sickness, and psychological helplessness. The description notes it may work through walls.

* TI community relevance: A government-funded, non-lethal RF interdiction concept whose disclosed effects include disorientation and incapacitation.

* View patent

US20160375220A1 - "Method to maintain peace through electromagnetic energy targeted to the brain" (Goldberg, abandoned)

* Inventor: Joel Steven Goldberg | Filed: March 1, 2016 | Status: Abandoned

* Summary: Proposes remotely transferring concentrated ELF waves to the temporal lobe or amygdala to produce behavioral change or seizure.

* TI community relevance: This is an abandoned application, not a granted patent. It is included because its claims explicitly propose remote electromagnetic targeting of brain regions.

* View application

US11241187B2 - "Electromagnetic wave sensing and modulating of neuronal activities" (Xia/Li)

* Inventors: Qian Xia, Xiaoping Li | Assignee: Newrocare Technology Wuhan Co Ltd

* Filed: November 4, 2015 | Granted: February 8, 2022

* Summary: Asymmetric RF electromagnetic waves are transmitted through a sleep-promoting brain site (VLPO) to induce an electric field and release sleep hormones. Devices may be placed under a pillow or against the head.

* TI community relevance: A granted patent describing an RF-based sleep-induction device placed near the head; it is not a claim of long-range covert deployment.

* View patent

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* 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

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