

PRESS RELEASE

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BEL ANNOUNCES PATENT AWARD FOR "METHOD FOR TREATING ANXIETY DISORDERS"

BEL is pleased to announce a new patent for a novel method in treating anxiety disorders. Anxiety is one of the most prevalent mental health disorders and is sometimes resistant to traditional cognitive behavior therapy. The current patent uses neuromodulation to lessen anxiety by disrupting repeating brain electrical patterns (pathological beta oscillations) that may be causing negative emotional arousal.

From the patent: "Noninvasive neuromodulation, using both Transcranial Magnetic Stimulation (TMS) and transcranial Direct Current Stimulation (tDCS), has been used for the treatment of anxiety. Both forms of electrical or electromagnetic stimulation have been applied to the frontal lobe, with the general rationale that the frontal cortex is the route through which the emotional arousal of anxiety operates to influence the cognition and action of the anxious person.

The present invention takes advantage of a better understanding of what part of the brain should be the target of the stimulation, and how to stimulate that target, for the purpose of treating anxiety disorders."

The **BEL Science Team** has long been at the forefront of discovering and understanding the anatomy, neurophysiology and the conductivity of human brain electrical activity. Taking the leap from researching the activity of the brain, to inventing an expert, noninvasive intervention for mental health disorders shows the leadership and impact of our scientists. The research and development of new technology to improve our relationship with the human mind is a core mission at **BEL**.

(12)		US011672980B1	
	United States Patent Tucker et al.	(10) Patent No.: US 11,672,980 B1 (45) Date of Patent: Jun. 13, 2023	
(54)	METHOD FOR TREATING ANXIETY DISORDERS	2012/0290058 A1* 11/2012 Langevin	
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