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(54) Title: SYSTEMS AND METHODS FOR PROVIDING PERSONALIZED TARGETED NON-INVASIVE STIMULATION TO A BRAIN NETWORK

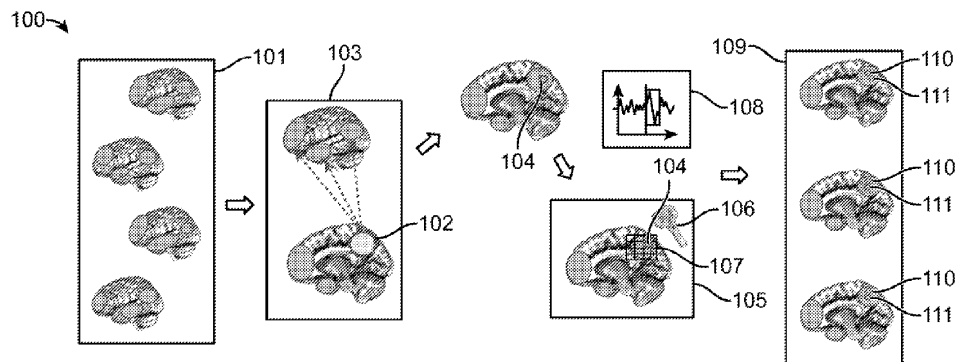


Figure 1A

(57) Abstract: Disclosed herein are devices, systems, and methods for ameliorating or treating or preventing Alzheimer's Disease and related dementias. Methods may include using individual patients' data to identify the optimal treatment target(s) as well as the stimulation intensity, frequency, or waveform, or any combination thereof, for transcranial electromagnetic induction delivered via a device as in the case of Transcranial Magnetic Stimulation. Systems and methods include a platform or infrastructure for treatment delivery and data processing. In some embodiments, methods are applied to restore cognitive function, ameliorate clinical symptoms, modify altered mechanisms of plasticity, modulate cortical excitability and reactivity, or induce changes in local brain metabolism.

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