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(54) **Title:** RTMS DEVICE

(57) **Abstract:** An rTMS coil or set of coils are designed to affect multiple regions of the brain with synchronous magnetic field pulses. Multiple coils aligned over the targeted regions of interest, or a single coil that is stretched or enlarged in a shape that allows the magnetic field to affect the areas of interest are disclosed. Also disclosed is a method of optimizing repetitive transcranial magnetic stimulation (rTMS) treatments.

