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(54) Title: METHOD AND SYSTEM FOR TREATMENT OF NEUROMOTOR DYSFUNCTION

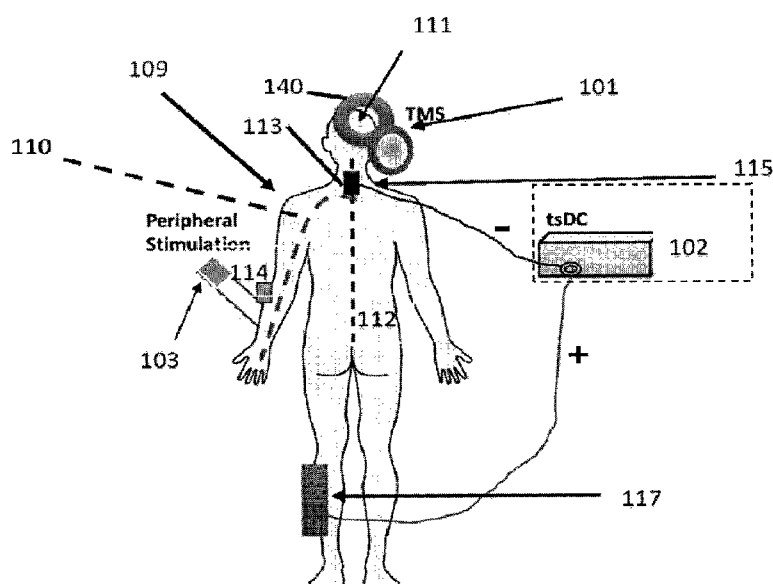


Fig. 2a

(57) **Abstract:** Effective systems and methods for improving neural communication impairment of a vertebrate being and affecting motor activity of a peripheral body part including a first signal-providing component configured to provide pulsed peripheral stimulation signals at the peripheral body part, a second signal-providing component configured to provide a pulsed motor cortex stimulation signal to a motor cortex area, a substantially DC signal-providing component configured to provide direct current spinal stimulation signal at a neural spinal junction and a controller component configured to control timing of the pulsed peripheral stimulation signals and the pulsed motor cortex stimulation signal.



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