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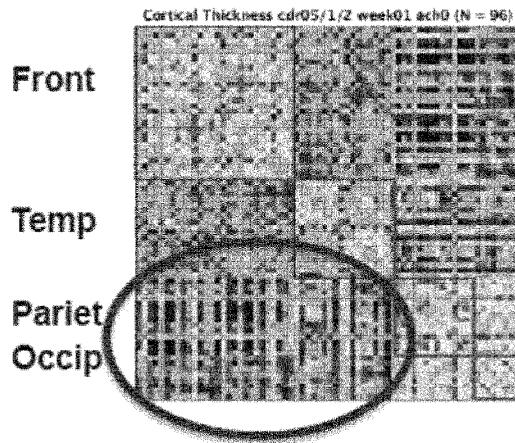
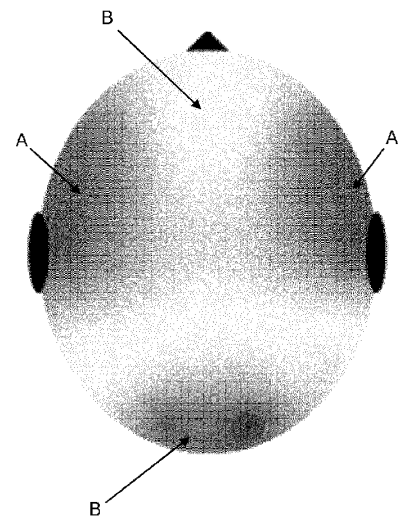


Figure 41



(57) Abstract: A method of determining patient response to a neuropharmacological intervention, a method of determining a patient's likelihood of developing one or more neurological disorders, and systems for the same. The method of determining a patient's likelihood of developing one or more neurological disorders, comprising the steps of: obtaining data indicative of electrical activity within the brain of the patient; generating a network, based at least in part on the obtained data, said network comprising a plurality of nodes and directed connections between nodes, wherein the network is indicative of a flow of the electrical activity within the brain of the patient; calculating, for each node, a difference in a number and/or strength of connections into the node and a number and/or strength of connections out of the node; and determining, using the calculated differences, the patient's likelihood of developing one or more neurological disorders.

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