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(54) **Title**: ARYL AND HETEROARYL SULFONES AS MGLUR4 ALLOSTERIC POTENTIATORS, COMPOSITIONS, AND METHODS OF TREATING NEUROLOGICAL DYSFUNCTION

(57) **Abstract**: In one aspect, the invention relates to sulfone compounds which are useful as allosteric potentiators/positive allosteric modulators of the metabotropic glutamate receptor subtype 4 (mGluR4); synthetic methods for making the compounds; pharmaceutical compositions comprising the compounds; and methods of using the compounds, for example, in treating neurological and psychiatric disorders or other disease state associated with glutamate dysfunction.