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(54) Title of the invention : SYNTHESIS AND ANTICONVULSANT ACTIVITY OF THIADIAZOLES DERIVATIVES

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(71)Name of Applicant :**1)Dr. Shweta Verma**

Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road (NH-24), Moradabad, Uttar Pradesh - 244102 -----

2)Mr. Asif Ali**3)Dr. Munesh Mani****4)Dr. Navneet Verma****Name of Applicant : NA****Address of Applicant : NA****(72)Name of Inventor :****1)Dr. Shweta Verma**

Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road (NH-24), Moradabad, Uttar Pradesh - 244102 -----

2)Mr. Asif Ali

Address of Applicant :Faculty of Pharmacy, IFTM University, Lodhipur Rajput, Delhi Road (NH-24), Moradabad, Uttar Pradesh - 244102 -----

3)Dr. Munesh Mani

Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road (NH-24), Moradabad, Uttar Pradesh - 244102 -----

4)Dr. Navneet Verma

Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road (NH-24), Moradabad, Uttar Pradesh - 244102 -----

(57) Abstract :

The present invention relates to the synthesis of thiadiazole derivatives and evaluated for different properties to predict its CNS activity. The drugs synthesized was synthesized by using thiosemicarbazide as a starting material which undergoes cyclization and then bromination to form the intermediate (C). The amino group of intermediate was allowed to react with different benzaldehydes to form the final product (D1-D4). The compounds were evaluated for the anticonvulsant activity by using PTZ method. The target compounds also showed mild to moderate activity. From activity, some of the target compounds have shown significant CNS activity. However, further optimization might be beneficial in the future research and development of the target compounds for the enhancement of the CNS activity.

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