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PUBLICATION OF THE PATENT OFFICE

## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**( Shri Rajendra Ratnoo )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

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(57) Abstract :

The present invention relates to a novel process for synthesis of newer derivatives of Thiobarbituric Acid for anticonvulsant potential. Thiobarbituric acid derivatives have been produced in a sequence. IR, <sup>1</sup>HNMR, <sup>13</sup>CNMR, and Mass spectroscopy were used to characterize the structures of freshly synthesized substances. In order to estimate their drug-like candidates, a number of physiochemical and pharmacokinetic parameters of synthesised compounds were estimated. With special reference to carbonic anhydrase enzyme-2, molecular docking was performed on these produced compounds. The PTZ method was used to screen the produced compounds for anticonvulsant action as carbonic anhydrase enzyme inhibitors. Among all anticonvulsant compounds, (Z)-N-(3-methoxyphenyl)-4-((6-oxo-2-thioxotetrahydropyrimidin-4(1H)-ylidene)amino) benzamide exhibited the highest anticonvulsant effects.

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