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(71)**Name of Applicant :**
1)Pankaj Garg
Address of Applicant :Jayoti Vidyapeeth Women™s University, Vedaant Gyan Valley, Village-Jharna, Mahal Jobner Link Road, Jaipur Ajmer Express Way, NH-8, Jaipur-303122, Rajasthan (INDIA) Rajasthan India
(72)**Name of Inventor :**
1)Pankaj Garg
2)Dharmendra Ahuja
3)Deepak Mittal

(57) Abstract :
The long height plus-maze apparatus (LPM) is a apparatus which will be used to evaluate drugs which are used in treatment of anxiety, this is a rodent model of anxiety, and will be representative of those tests that are based upon the study of spontaneous behaviorpatterns. The model will be based on the test animals aversion to open spaces. In the LPM, this anxiety will be expressed by the animal spending more time in the enclosed arms. The long height plus maze will be used for behavioral assay for rodents and will useful to assess the anti-anxiety effects of pharmacological agents and to define brain regions and mechanisms underlying anxiety-related behavior. Briefly, rats or mice will be placed at the junction of the four arms of the maze, facing an open arm, and entries/duration in each arm are recorded by the observer simultaneously for 5 min. Other ethological parameters (i.e., rears, head dips and stretched-attend postures) will also be observed. An increase in open arm activity (duration and/or entries) will reflects anti-anxiety behavior.

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