

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

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निर्गमन सं. 21/2026  
ISSUE NO. 21/2026

शुक्रवार  
**FRIDAY**

दिनांक: 22/05/2026  
DATE: 22/05/2026

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202611046292 A

(19) INDIA

(22) Date of filing of Application :10/04/2026

(43) Publication Date : 22/05/2026

(54) Title of the invention : PHARMACOGNOSTICAL AND PHARMACOLOGICAL EVALUATION WITH MOLECULAR DOCKING ANALYSIS OF PHYTOCONSTITUENTS FROM SYZYGIUM AROMATICUM

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(57) Abstract :

The present invention relates a comprehensive and integrated method for the pharmacognostical, physicochemical, phytochemical, pharmacological, and molecular docking evaluation of phytoconstituents derived from Syzygium aromaticum. The invention includes authentication and standardization of the plant material through macroscopic, microscopic, and physicochemical analyses. Ethanol extraction followed by phytochemical screening confirms the presence of bioactive compounds such as flavonoids, phenolics, and terpenoids. Pharmacological evaluation demonstrates significant antioxidant and anti-inflammatory activities using in vitro assays. Further, molecular docking analysis reveals strong binding interactions of key phytoconstituents with inflammation-related target proteins. The integrated approach provides reliable identification, quality assessment, and therapeutic validation, thereby supporting the potential application of Syzygium aromaticum in the development of safe and effective plant-based pharmaceutical formulations.

No. of Pages : 13 No. of Claims : 6