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पेटेंट कार्यालय का एक प्रकाशन  
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(54) Title of the invention : PHARMACOGNOSTICAL AND BIOLOGICAL EVALUATION OF EXTRACT OF ARTEMISIA APIACEA

<p>(51) International classification :A61K36/28, A61K135/00</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Mr. Swatantr Bahadur Singh</b> Address of Applicant :Assistant Professor, School of pharmaceutical sciences, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, Pin Code:244102 -----</p> <p><b>2)Dr. Pooja Saini</b></p> <p><b>3)Ms. Himanshi Chaudhary</b></p> <p><b>4)Dr. Mhaveer Singh</b></p> <p><b>5)Dr. Rita Yadav</b></p> <p><b>6)Mr. Raj kumar Singh Bharti</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)Mr. Swatantr Bahadur Singh</b> Address of Applicant :Assistant Professor, School of pharmaceutical sciences, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, Pin Code:244102 -----</p> <p><b>2)Dr. Pooja Saini</b> Address of Applicant :Assistant Professor, School of pharmaceutical sciences, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, Pin Code:244102 -----</p> <p><b>3)Ms. Himanshi Chaudhary</b> Address of Applicant :School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, Pin Code:244102 -----</p> <p><b>4)Dr. Mhaveer Singh</b> Address of Applicant :Associate Professor, School of pharmaceutical sciences, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, Pin Code:244102 -----</p> <p><b>5)Dr. Rita Yadav</b> Address of Applicant :Assistant Professor, Pharmacy Academy, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----</p> <p><b>6)Mr. Raj kumar Singh Bharti</b> Address of Applicant :Assistant Professor, School of pharmaceutical sciences, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh, Pin Code; 244102 -----</p>
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## (57) Abstract :

The present invention relates to the pharmacognostical, phytochemical, and pharmacological evaluation of the stem of Artemisia apiacea, a plant used in traditional medicine. The stem was collected from Nainital, Uttarakhand, and authenticated for scientific analysis. Morphological and microscopical studies were conducted, revealing key diagnostic features. Physicochemical properties, including extractive values, total ash, and acid-insoluble ash, were determined, highlighting the plant's potential for bioactive compound extraction. Preliminary phytochemical screening identified the presence of carbohydrates, alkaloids, flavonoids, and glycosides. Antimicrobial and antifungal activities of the methanolic extract were evaluated, showing significant antibacterial effects against Pseudomonas aeruginosa, Bacillus subtilis, Escherichia coli, and Staphylococcus aureus, as well as antifungal activity against Aspergillus niger. The results suggest that Artemisia apiacea stem contains medicinally important secondary metabolites, supporting its use in developing pharmacological formulations and setting pharmacopeial standards.

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