

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

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निर्गमन सं. 13/2026  
ISSUE NO. 13/2026

शुक्रवार  
**FRIDAY**

दिनांक: 27/03/2026  
DATE: 27/03/2026

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : ANTI-INFLAMMATORY ACTIVITY OF ETHANOLIC EXTRACT OF AEGLE MARMELOS BARK ON ALBINO WISTER RATS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61P 29/00, A61K 36/28, A61K 36/23, A61K 36/00, A61K 36/48</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:</p> <p>:01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Mr. Raj Kumar Singh Bharti</b> Address of Applicant :Assistant Professor School of Pharmaceutical Sciences, Faculty of Pharmacy, IFTM University Lodhipur Rajput, Moradabad, Uttar Pradesh, India. Pin 244102 Uttar Pradesh India</p> <p><b>2)Mr. Dharamveer Singh</b></p> <p><b>3)Dr Sushil Kumar</b></p> <p><b>4)Mr. Mohd Wali Ahed</b></p> <p><b>5)Mr. Anurag Bharti</b></p> <p><b>6)Mr. Dinesh Kumar</b></p> <p><b>7)Mr. Yogesh Kumar</b></p> <p><b>8)Mr. Ravi Kumar</b></p> <p><b>9)Mr. Anil Kumar</b></p> <p><b>10)Mr. Anesh Sagar</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Mr. Raj Kumar Singh Bharti</b></p> <p><b>2)Mr. Dharamveer Singh</b></p> <p><b>3)Dr Sushil Kumar</b></p> <p><b>4)Mr. Mohd Wali Ahed</b></p> <p><b>5)Mr. Anurag Bharti</b></p> <p><b>6)Mr. Dinesh Kumar</b></p> <p><b>7)Mr. Yogesh Kumar</b></p> <p><b>8)Mr. Ravi Kumar</b></p> <p><b>9)Mr. Anil Kumar</b></p> <p><b>10)Mr. Anesh Sagar</b></p>
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## (57) Abstract :

The present invention relates to a novel pharmaceutical composition comprising an ethanolic extract of Aegle marmelos bark with potent anti-inflammatory and analgesic activity, and a process for its preparation. The bark is extracted using 95 percent ethanol by Soxhlet extraction or maceration, followed by filtration and concentration under reduced pressure at 40 degrees Celsius to obtain a crude extract. The extract exhibits significant dose-dependent anti-inflammatory activity in carrageenan-induced paw edema in albino Wistar rats, showing 56.62 percent and 59.13 percent inhibition at doses of 200 milligrams per kilogram and 400 milligrams per kilogram body weight, respectively. The activity is attributed to bioactive constituents including alkaloids, coumarins, flavonoids, terpenoids, and phenolic compounds that inhibit inflammatory mediators. Acute toxicity studies confirm safety up to 2000 milligrams per kilogram, providing a safer alternative to conventional NSAIDs.

No. of Pages : 25 No. of Claims : 10