

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

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निर्गमन सं. 24/2025  
ISSUE NO. 24/2025

शुक्रवार  
FRIDAY

दिनांक: 13/06/2025  
DATE: 13/06/2025

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : HERBAL EMULGEL OF CLOVE BUDS EXTRACT FOR ANTIBACTERIAL AND ANTI-INFLAMMATORY TOPICAL USE

(51) International classification :A61K0009000000, A61K0036610000, A61P0029000000, A61K0047320000, A61K0047380000

(86) International Application No :NA  
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
 Filing Date :NA

(62) Divisional to Application Number :NA  
 Filing Date :NA

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(57) Abstract :  
 This invention relates to a novel emulgel formulation containing Eugenia caryophyllus (clove) buds essential oil, designed for topical antibacterial and anti-inflammatory therapy. The formulation combines Carbopol 940 as a gelling agent with suitable emulsifiers and moisturizers to ensure stability, skin compatibility, and enhanced bioactive delivery. In vitro studies demonstrated significant antimicrobial activity against Escherichia coli and Bacillus subtilis, alongside strong anti-inflammatory effects confirmed through protein denaturation inhibition assays. The emulgel exhibits a skin-friendly pH, excellent homogeneity, and good spreadability, making it suitable for easy and effective topical application. This herbal-based formulation offers a natural, safe, and efficient alternative to synthetic drugs for managing infections, inflammation, and pain, promoting better patient compliance and reduced side effects.

No. of Pages : 12 No. of Claims : 1