पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 52/2025	शुक्रवार	दिनांक: 26/12/2025
ISSUE NO. 52/2025	FRIDAY	DATE: 26/12/2025

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2025
(21) Application No.202521115219 A
(43) Publication Date : 26/12/2025

(54) Title of the invention : ANGIOGENESIS-STIMULATING COMPOSITIONS OF BIOPHYTUM SENSITIVUM AND TRIDAX PROCUMBENS

(51) International classification	:C06B 33/12, F26B 1/00, F16F 1/18, B42D 9/04, B01D 53/28
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	: :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Dr. Manisha Chandrakant Mhaske
Address of Applicant :At Post Kirloskarwadi, Palus, Sangli, 416308, Maharashtra, India Maharashtra India
2)Dr. Anuradha Dhairyashil Pawar
3)Miss. Geeta Ramesh Katkar
4)Dr. Rajaram Shankarrao Dubal
5)Dr. Nandkumar Kallappa Kamble
6)Dr. Virendra Baburao Pawar
7)Dr. Bipin Shankarao Shinde
8)Dr. Ayaj Ladlesaheb Shaikh
9)Dr. Dhananjay Madhavrao Patil
10)Rutuja Sarjerao Patil
(72)**Name of Inventor :**
1)Dr. Manisha Chandrakant Mhaske
2)Dr. Anuradha Dhairyashil Pawar
3)Miss. Geeta Ramesh Katkar
4)Dr. Rajaram Shankarrao Dubal
5)Dr. Nandkumar Kallappa Kamble
6)Dr. Virendra Baburao Pawar
7)Dr. Bipin Shankarao Shinde
8)Dr. Ayaj Ladlesaheb Shaikh
9)Dr. Dhananjay Madhavrao Patil
10)Rutuja Sarjerao Patil

(57) Abstract :
A multi-targeted angio-suppressive composition derived from crude organic solvent extracts of Biophytum sensitivum (Linn.) and/or Tridax procumbens (Linn.) is disclosed. The extracts are optimally prepared using acetone or chloroform from the leaf material, yielding 9.5% to 13.1% dry weight. The composition demonstrates potent, dose-dependent anti-angiogenic activity confirmed by the Chick Chorioallantoic Membrane (CAM) in ovo assay, showing highly significant inhibition of secondary and tertiary blood vessel proliferation at concentrations maintaining a non-toxic survival rate of ≥92%. The multi-targeted mechanism of action involves the down-regulation of pro-angiogenic factors, including suppression of VEGF mRNA expression and inhibition of endothelial cell migration and tube formation. The extracts contain synergistic compounds such as Amentoflavone, Quercetin, and Chlorogenic Acid, positioning them as effective, safe agents for treating pathological neovascularization associated with cancer, diabetic retinopathy, and chronic inflammatory diseases.

No. of Pages : 24 No. of Claims : 6