

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431101688 A

(19) INDIA

(22) Date of filing of Application :21/12/2024

(43) Publication Date : 03/01/2025

(54) Title of the invention : Production of Ricinus Communis Plant-Derived Fibers Infused with Natural Color and Antimicrobial Properties Using Bougainvillea Extracts

		(71)Name of Applicant : 1)Brainware University, Kolkata Address of Applicant :398, Ramkrishnapur Rd, Near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- ----- Name of Applicant : NA Address of Applicant : NA
(51) International classification	:D01F0001100000, C07K0016180000, C07K0007080000, A61K0008978900, D01D0005080000	(72)Name of Inventor : 1)Dr. Nirlipta Saha Address of Applicant :Assistant Professor, Brainware University, Kolkata-700125 ----- 2)Dr. Priyanka Sen Guha Address of Applicant :Assistant Professor, Brainware University, Kolkata-700125 ----- 3)Shreyoshi Bhowmik Address of Applicant :Student, Brainware University, Kolkata-700125 ----- 4)Dhriti Barman Address of Applicant :Student, Brainware University, Kolkata-700125 -----
(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	

(57) Abstract :

This invention relates to a novel method for producing fibers from the Ricinus communis plant, which are infused with natural color and antimicrobial properties through the use of Bougainvillea extracts. The process involves extracting dyes and antimicrobial agents from Bougainvillea flowers and incorporating them during the fiber production phase of Ricinus communis. This integration enhances the fiber's aesthetic appeal and functional properties, offering a sustainable alternative to synthetic additives. The resulting fibers are characterized by their durability, color stability, and resistance to microbial growth, making them suitable for various textile applications where both aesthetic quality and hygiene are paramount.

No. of Pages : 17 No. of Claims : 10