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(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. Nirlipta Saha Address of Applicant :Assistant Professor, Brainware University, Kolkata-700125 -----
(87) International Publication No	: NA	2)Dr. Priyanka Sen Guha Address of Applicant :Assistant Professor, Brainware University, Kolkata-700125 -----
(61) Patent of Addition to Application Number	:NA	3)Shreyoshi Bhowmik Address of Applicant :Student, Brainware University, Kolkata-700125 -----
Filing Date	:NA	4)Dhrithi Barman Address of Applicant :Student, Brainware University, Kolkata-700125 -----
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(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.

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