



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic>)

### Patent Search

Invention Title	A PROCESS OF PREPARATION OF ANTIBACTERIAL GREENER NANOFIBERS AND PRODUCT THEREOF
Publication Number	11/2023
Publication Date	17/03/2023
Publication Type	INA
Application Number	202341014812
Application Filing Date	06/03/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	FOOD
Classification (IPC)	A23L 331350, A61P 310400, C07D 770000, G06F 011600, G06F 170000

#### Inventor

Name	Address	Country
PROF. DR. PALANIYANDI VELUSAMY	SREE BALAJI MEDICAL COLLEGE AND HOSPITAL, No 7 WORKS ROAD, CHROME PET, CHENGALPATTU CHENNAI TAMIL NADU INDIA 600 044	India

#### Applicant

Name	Address	Country
SREE BALAJI MEDICAL COLLEGE AND HOSPITAL	No 7, WORKS ROAD, CHROME PET, CHENGALPATTU, CHENNAI, TAMIL NADU, INDIA, 600 044.	India

#### Abstract:

TITLE: A PROCESS OF PREPARATION OF ANTIBACTERIAL GREENER NANOFIBERS AND PRODUCT THEREOF APPLICANT: SREE BALAJI MEDICAL COLLEGE AND HOSPITAL  
 ABSTRACT The present invention discloses a process for preparation of antibacterial greener nanofibers. The process of the present invention comprises of following steps:  
 a. preparation of greener silver nanoparticles comprising of mixing aqueous solution of Neem gum, silver nitrate, and milli-Q water followed by autoclaving to form silver nanoparticles; b. preparation of cross linking reaction mixture comprising of adding aqueous solution of Neem gum, the greener silver nanoparticles, aqueous solution of sago and deionized water under predetermined reaction condition to form cross linking mixture; c. formation of Calotropis gigantea fibers comprising cleaning and soaking fresh stems of Calotropis gigantea followed by removing washing and drying in sunlight and preparing fibers by weaving technique followed by treatment of the fibers with NaOH solution to form Calotropis gigantea fibers; d. preparation of antibacterial greener nanofibers by in-situ cross-linking the Calotropis gigantea fibers with the cross linking mixture by soaking the Calotropis gigantea fibers with the cross linking mixture followed by drying to form antibacterial greener nanofibers. The present invention also discloses an antibacterial greener nanofiber prepared by the process as described above.

#### Complete Specification

Description:Form 2

THE PATENT ACT, 1970  
 (39 of 1970)  
 &  
 THE PATENT RULES, 2003  
 COMPLETE SPECIFICATION  
 (See section 10 and rule 13)

[View Application Status](#)