

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/07/2023

(21) Application No.202321050709 A

(43) Publication Date : 22/09/2023

(54) Title of the invention : NOVEL GREEN SYNTHESIZED SILVER-GRAPHENE OXIDE ANTIMICROBIAL NANOCOMPOSITES

(51) International classification	:C09D0005140000, A01N0025100000, A01N0043400000, B82Y0030000000, C08L0023060000	(71)Name of Applicant : 1)Sabale Vidya Prafulla Address of Applicant :Dadasaheb Balpande College of Pharmacy, Besa, Nagpur-440037, Maharashtra, India. Nagpur ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sabale Vidya Prafulla Address of Applicant :Dadasaheb Balpande College of Pharmacy, Besa, Nagpur-440037, Maharashtra, India. Nagpur ----- ----- 2)Sabale Prafulla Madhukarrao Address of Applicant :Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University, Mahatma Jyotiba Fuley Shaikshanik Parisar, Nagpur-440033, Maharashtra, India. Nagpur ----- ----- 3)Malokar Aboli Sunil Address of Applicant :Dadasaheb Balpande College of Pharmacy, Besa, Nagpur-440037, Maharashtra, India. Nagpur ----- -----
(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 :

The present invention relates to a preparation of novel green synthesized silver-graphene oxide nanocomposites for antimicrobial activity and packaging application. The process of the invention is rapid and eco-friendly. Further, the antimicrobial properties of nanocomposites of the invention make it a promising candidate for packaging application in fruits and vegetables preventing microbial growth.

No. of Pages : 18 No. of Claims : 8