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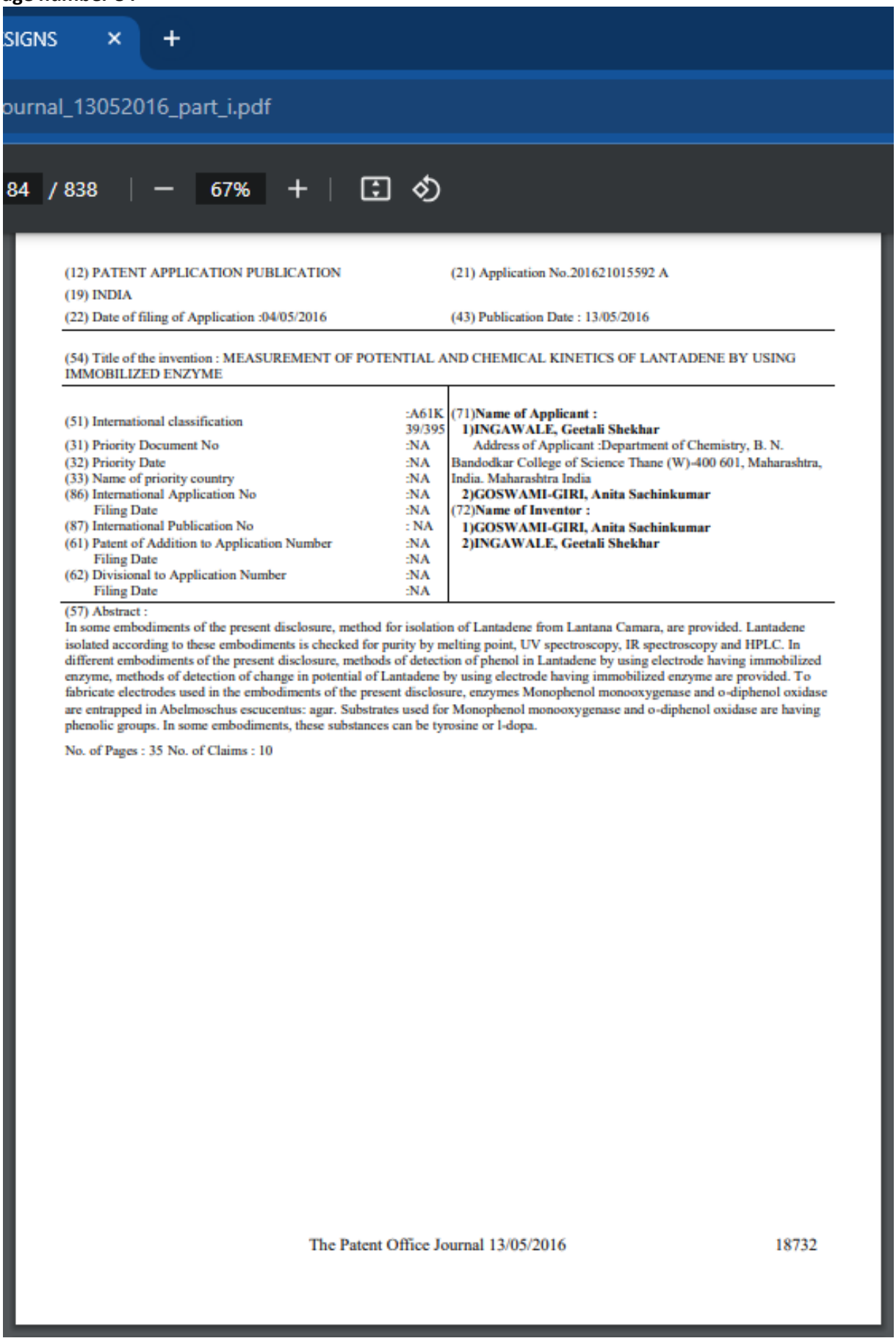

(12) PATENT APPLICATION PUBLICATION (21) Application No.201621015592 A

(19) INDIA

(22) Date of filing of Application :04/05/2016 (43) Publication Date : 13/05/2016

(54) Title of the invention : MEASUREMENT OF POTENTIAL AND CHEMICAL KINETICS OF LANTADENE BY USING IMMOBILIZED ENZYME

(51) International classification	:A61K 39/395	(71)**Name of Applicant :** **1)INGAWALE, Geetali Shekhar** Address of Applicant :Department of Chemistry, B. N. Bandodkar College of Science Thane (W)-400 601, Maharashtra, India. Maharashtra India **2)GOSWAMI-GIRI, Anita Sachinkumar**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72)**Name of Inventor :** **1)GOSWAMI-GIRI, Anita Sachinkumar** **2)INGAWALE, Geetali Shekhar**
(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 :

In some embodiments of the present disclosure, method for isolation of Lantadene from Lantana Camara, are provided. Lantadene isolated according to these embodiments is checked for purity by melting point, UV spectroscopy, IR spectroscopy and HPLC. In different embodiments of the present disclosure, methods of detection of phenol in Lantadene by using electrode having immobilized enzyme, methods of detection of change in potential of Lantadene by using electrode having immobilized enzyme are provided. To fabricate electrodes used in the embodiments of the present disclosure, enzymes Monophenol monooxygenase and o-diphenol oxidase are entrapped in Abelmoschus escucentus: agar. Substrates used for Monophenol monooxygenase and o-diphenol oxidase are having phenolic groups. In some embodiments, these substances can be tyrosine or l-dopa.

No. of Pages : 35 No. of Claims : 10