

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241008784 A

(19) INDIA

(22) Date of filing of Application :19/02/2022

(43) Publication Date : 25/08/2023

(54) Title of the invention : Method, System and Apparatus for Automated Diagnosis of Mycotic Keratitis

(51) International classification	:G16H0010600000, A61B0005020000, G06Q0050220000, G06T0007600000, G06T0007181000	(71) Name of Applicant : 1)National Institute of Technology Karnataka Address of Applicant :Srinivasnagar PO, Surathkal, Mangalore - 575025, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sowmya Kamath S
(33) Name of priority country	:NA	2)Veena Mayya
(86) International Application No	:PCT//	3)Krishnananda Prabhu Karadka
Filing Date	:01/01/1900	4)Manali Hazarika
(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 :

TITLE: Method, System and Apparatus for Automated Diagnosis of Mycotic Keratitis ABSTRACT A method (301) of diagnosing Mycotic Keratitis comprising receiving (302) an input corneal image, performing (304) validity checks for the input images, pre-processing (306) the validated images, capturing (308) corneal border and generating corneal masks, determining (310) dominant clinical features based on the corneal border and corneal masks, generating (312) a clinical report diagnosing Mycotic Keratitis, and storing (314) data with respect to a patient in a database, wherein the determination of corneal borders and the generation of corneal masks employs pattern analysis to demarcate corneal borders and delineates the corneal image into multiple context-specific segments. FIG. 3

No. of Pages : 15 No. of Claims : 7