(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application: 10/02/2020

(43) Publication Date: 21/02/2020

(54) Title of the invention: AUTOMATED NON INVASIVE BLOOD GROUP DETERMINATION AND CHOLESTEROL LEVEL USING IOT

(51)	(71)Name of Applicant:
International ;A61B0005000000,G01N0033800000,G01N0001300000,C07K0016340000,G01N0033580000	1)Dr.S.Sudhakar
classification	Address of Applicant (Professor Department of
(31) Priority	Computer Science & Engineering, Sree Sakthi
Document :NA	Engineering College, Karamadai, Coimbtaore 641
No.	104 Tamil Nadu, India Tamil Nadu India
(32) Priority :NA	2)Dr.S.Raju
Date	3)Dr. Pankaj Dadheech
(33) Name	4)Dr.V. Priya
of priority :NA	5)Mc.V.Vinoth Kumar
country	6)Dr. T. Avudaiappae
(86)	7)Dr A Syed Musthafa
International	8)Dr C.Nallusamy
Application :NA	9)Dr.K.Prasanth
No :NA	10)Dr.E.Punarselvam
Filing	(72)Name of Inventor:
Date	1)Dr.S.Sudhakar
(87)	2)Dr.S.Raju
	3)Dr. Pankaj Dadheech
International : NA Publication	4)Dr.V. Priva
No	5)Mr.V.Vinnth Kumar
(61) Patent	6)Dr. T. Avudaiappan
of Addition	7)Dr A Syed Musthafa
to	8)Dr C.Nallusamy
Application	9)Dr.K.Prasanth
Number :NA	10)Dr.E.Punarselvam
Filing	10)211211 211111111111111111111111111111
Date	
(62)	
Divisional to	
Application :NA	
Number :NA	
Filing	
-	
Date	

(57) Abstract:

The monitoring system of the patient's health status is a demanding job in the home. In particular, old age patients ought to checked regularly, and their dear most ones need to be stated during a work perind about their health status periodically. An individual's blood group is composed of Red Blind Cell antigens, whose composition is determined by gene sequence, protein presence, and antigen structure. The proposed invention is a non-invasive approach to classify the blood cells group without perforating the tissue. Light serves as a channel for optical signals that can pass through the palm and measures the changing voltage. In this system, a smart patient health monitoring program is put forward, using sensors and microcontrollers to monitor patient health and send alert notifications to the mobile phone fur the patient. Cholesterol levels, as well as blood glucose levels, are used in the application system, helps to keep continuous monitoring of patient health. The loT-based patient health tracking system efficiently utilizes the Internet for monitoring to save patient's lives and their health to prevent emergencies. The approach provides a method for automatically determining the type of human blood by applying image processing algorithms to the optically obtained images of the skin surface underlying superficial capillaries. The technique embeds the Multi-Wavelength Light scattering system as light passes through capillaries to dynamically distinguish blood cells on the Red Blood Cell surface, based on specific antigens. The primary detector structure is created by the portable optical system (camera) along with the photo-detecturs. Used to detect the distribution-pattern of scattered light produced by the blood cells to determine the type of blood without taking blood samples from the body. The proposed model intended to create an embedded system to execute blood tests based on Rh and ABO blood typing systems using Image Processing methods.

No. of Pages: 18 No. of Claims: 7





Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER

202041005771

APPLICATION TYPE

ORDINARY APPLICATION

DATE OF FILING

10/02/2020

APPLICANT NAME

1. Dr.S.Sudhakar

2. Dr.S.Raju

3. Dr. Pankaj Dadheech

4. Dr.V. Priya

5 . Mr.V.Vinoth Kumar 6 . Dr. T. Avudaiappan 7 . Dr A Syed Musthafa 8 . Dr C.Nallusamy 9 . Dr.K.Prasanth 10 . Dr.E.Punarselvam

TITLE OF INVENTION

AUTOMATED NON INVASIVE BLOOD GROUP DETERMINATION AND

CHOLESTEROL LEVEL USING IOT

FIELD OF INVENTION

BIO-MEDICAL ENGINEERING

E-MAIL (As Per Record)

sudhasengan@gmail.com

ADDITIONAL-EMAIL (As Per Record)

sudhasengan@gmail.com

E-MAIL (UPDATED Online)

sudhasengan@gmail.com

PRIORITY DATE

REQUEST FOR EXAMINATION DATE

10/02/2020

PUBLICATION DATE (U/S 11A)

21/02/2020

Application Status

View Documents