



700160903

FORM 1 THE PATENTS ACT 1970 (39 OF 1970) & The Patents Rules, 2003 APPLICATION FOR GRANT OF PATENT (See section 7.54&135 and rule 20 (1))			Application No: 201741042153 Filing Date: 24/11/2017 Amount of Fee Paid: 8800/- CBR No: 36233. Signature:
1. APPLICANT			
Name	Nationality	Address	
CMR Technical Campus	Indian	Kandlakoya (V), Medchal Road, Hyderabad-501401, Telangana, India.	
2. INVENTORS			
Name	Nationality	Address	
Dr.A.Raji Reddy	Indian	Professor, Department of ME, CMR Technical Campus, Kandlakoya (V), Medchal Road, Hyderabad-501401, Telangana, India.	
D.Maneiah	Indian	Professor, Department of ME, CMR Technical Campus, Kandlakoya (V), Medchal Road, Hyderabad- 501401, Telangana, India.	
K. Srujan Raju	Indian	Professor, Department of CSE, CMR Technical Campus, Kandlakoya (V), Medchal Road, Hyderabad-501401, Telangana, India.	
S.Madhu	Indian	Roll No: 157R1A0353, B.Tech III Year, Department of ME, CMR Technical Campus, Kandlakoya (V), Medchal Road, Hyderabad-501401, Telangana, India.	
Ashley Jude	Indian	Roll No: 167R1A0356, B.Tech II Year, Department of ME, CMR Technical Campus, Kandlakoya (V), Medchal Road, Hyderabad-501401, Telangana, India.	
Md.Ifthekarahmed	Indian	Roll No: 167R5A0301, B.Tech II Year, Department of ME, CMR Technical Campus, Kandlakoya (V), Medchal Road, Hyderabad- 501401, Telangana, India.	
D. Pranov Reddy	Indian	Roll No 147R1A05D8 , B.Tech IV Year, Department of CSE, CMR Technical Campus, Kandlakoya (V), Medchal Road, Hyderabad-501401, Telangana, India.	

24-Nov-2017/73144/201741042153/Form 1

PATENT OFFICE CHENNAI 27/11/2017 16:00

3. TITLE OF THE INVENTION

**“METHOD INVOLVING DRIFT CORRECTION OF MICROMECHANICAL
GYROSCOPE IN AUGMENTED REALITY SYSTEM ON MOBILE OBJECT”**

ADDRESS FOR CORRESPONDENCE
CMR Technical Campus, CMR Technical
Campus, Kandlakoya (V), Medchal Road,
Hyderabad-501401, Telangana, India.

Mobile No.: +91 9247033440
Email id: director@cmrtc.ac.in

**5. PRIORITY PARTICULARS OF THE APPLICATION (S) FILED IN CONVENTION
COUNTRY** -NA-

**6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL
PHASE APPLICATION** -NA-

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION
-NA-

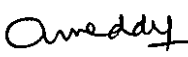

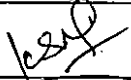
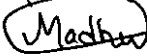

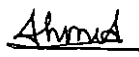
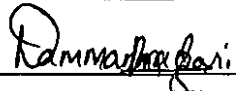
8. PARTICULARS FOR FILING PATENT OF ADDITION
-NA-

9. DECLARATIONS:

(i) Declaration by the Inventor(s)

We, the named inventors are the true & first inventor for this invention and declare that the applicants herein is our assignee or legal representative.

Date: November 08, 2017

Inventor Name	Inventor Signature
Dr.A.Raji Reddy	
D.Maneiah	
K. Srujan Raju	
S.Madhu	
Ashley Jude	
Md.Ifthekarahmed	
D. Pranov Reddy	

24-Nov-2017/73144/201741042153/Form 1

(ii) Declaration by the applicant in the convention country

-NA-

(iii) Declaration by the Applicant

- ✓ We are in possession of the above-mentioned invention
- ✓ The complete specification relating to the invention is filed with this application

The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me before the grant of patent to me

- ✓ There is no lawful ground of objection to the grant of the patent to me
- ✓ We are the assignee or legal representative of true & first inventors

The application or each of the applications, particulars of which are given in Para 5 was the first application in convention country in respect of my invention

We claim the priority from the above mentioned application filed in convention country and state that no application for protection in respect of the invention had been made in a convention country before that date by me or by any person from which I derive the title

Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para-6

The application is divided out of my application particulars of which are given in Para – 7 and pray that this application may be treated as deemed to have been filed on 27/01/2010 under sec. 16 of the Act

The said invention is an improvement in or modification of the invention particulars of which are given in Para – 8

10. Following are the attachments with the application:

- (a) Complete specification
- (b) Drawings
- (c) Statement and undertaking on Form 3
- (d) Declaration of Inventor ship on Form 5

Fee Rs 8,800 in DD

We hereby declare that to the best of our knowledge, information and belief the fact and matters stated herein are correct and we request that a patent may be granted to us for the said invention.

Dated this November 15, 2017

Authorized Signatory Signature: *Areddy*

Authorized Signatory Name: **Dr.A.Raji Reddy**

To,
The Controller of Patent
The Patent Office, at Chennai

24-NOV-2017/73144/201741042153/Form 1

PATENT OFFICE CHENNAI 27/11/2017 16:00

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741042153 A

(19) INDIA

(22) Date of filing of Application :24/11/2017

(43) Publication Date : 31/05/2019

(54) Title of the invention : METHOD INVOLVING DRIFT CORRECTION OF MICROMECHANICAL GYROSCOPE IN AUGMENTED REALITY SYSTEM ON MOBILE OBJECT

(51) International classification :G01C19/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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

(71)Name of Applicant :

1)CMR TECHNICAL CAMPUS

Address of Applicant :KANDLAKOYA (V),MEDCHAL ROAD, HYDERABAD - 501401, TELANGANA, INDIA. Telangana India

(72)Name of Inventor :

1)DR. A. RAJI REDDY

2)D. MANEIAH

3)K. SRUJAN RAJU

4)S. MADHU

5)ASHLEY JUDE

6)MD. IFTHEKARAHMED

7)D. PRANOV REDDY

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a method involving drift correction of micromechanical gyroscope in augmented reality system on mobile object by generating an angular coordinate of the users head through an augmented reality glasses with a built-in video camera; and a micromechanical gyroscope; and constructing a three-dimensional vector of the direction of movement of the object through the on-board receiver of the satellite navigation system, and the successive values are analysed by the on-board calculator through the mathematical method of regression analysis; and the correction of the angular coordinates of the users head along the yaw and pitch angles upon the detection of a segment of rectilinear motion on the basis of the invariance of the linear regression parameters; thus leading the yaw and pitch angles to the angular coordinates of the object motion vector, relative to a moving object, determined by optical recognition of markers, augmented reality and placing fixedly on a moving object in the cameras field of view.

No. of Pages : 10 No. of Claims : 1