

**FORM 3**  
**THE PATENTS ACT, 1970**  
**(39 OF 1970)**  
**and**  
**THE PATENTS RULES, 2003**  
**STATEMENT AND UNDERTAKING UNDER SECTION 8**  
**(See section 8; Rule 12)**

| <b>1. APPLICANT(S)</b>          |                    |                                                                                                                                                                                                                   |
|---------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                     | <b>Nationality</b> | <b>Address</b>                                                                                                                                                                                                    |
| <b>Mr. YOGESH. L</b>            | <b>Indian</b>      | <b>UG Student, Department of ECE, Sathyabama Institute of Science and Technology , Chennai, Tamil Nadu, India Pin: 600119.</b>                                                                                    |
| <b>Dr. G. JEGAN</b>             | <b>Indian</b>      | <b>Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India. Pin: 600119</b>                                                                            |
| <b>Dr. T. VINO</b>              | <b>Indian</b>      | <b>Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India. Pin: 600119</b>                                                                            |
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| <b>Dr. JOHN RAJAN A</b>         | <b>Indian</b>      | <b>Professor, Department of Manufacturing Engineering, School of Mechanical Engineering (SMEC), Vellore Institute of Technology, Tiruvalam Road, Katpadi, Vellore, Tamil Nadu, India. Pin:632014</b>              |
| <b>Dr. CHRISTOPHER CLEMENT</b>  | <b>Indian</b>      | <b>Associate Professor Grade 1, Department of Communication Engineering, School of Electronics Engineering, Vellore Institute of Technology, Tiruvalam Road, Katpadi, Vellore, Tamil Nadu, India. Pin: 632014</b> |
| <b>Dr. ASHISH KHAIRA</b>        | <b>Indian</b>      | <b>Assistant Professor, Department of Mechanical Engineering, SATI (Degree), Vidisha, Madhya Pradesh, India. Pin: 464001</b>                                                                                      |

**2. NAME, ADDRESS AND NATIONALITY OF THE JOINT APPLICANT.**

hereby declare :

that We have not made any application for the same/substantially the same invention outside India in reference to our patent application no. 202041026841.

**OR**

~~that I/We who have made this application No. .... Dated ..... alone made for the same/substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:~~

| <b>Name of Country</b> | <b>Date of Application</b> | <b>Application No</b> | <b>Status of Application</b> | <b>Date of Publication/ Publication No.</b> | <b>Date of Grant/ Grant No.</b> |
|------------------------|----------------------------|-----------------------|------------------------------|---------------------------------------------|---------------------------------|
|                        |                            |                       |                              |                                             |                                 |

**3. NAME AND ADDRESS OF THE ASSIGNEE**

(iii) that the rights in the application(s) has/have been assigned to **NONE. THE RIGHTS ARE HELD WITH APPLICANTS ONLY.**

that I/We undertake that upto the date of grant of the patent by the Controller, I/We would keep him informed in writing the details regarding corresponding applications for patents filed outside India within six months from the date of filing of such application

**4.To be signed by the applicant or his authorized registered patent agent.**

**Dated this 27/06/2020**



**Vikas Asawat  
Patent Agent & Advocate  
INPA 1407  
On Behalf of Applicant  
Digitally Signed**

To, The Controller of Patents,  
The Indian Patent Office, At Chennai



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

### Application Details

|                                  |                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NUMBER               | 202041026841                                                                                                                                                             |
| APPLICATION TYPE                 | ORDINARY APPLICATION                                                                                                                                                     |
| DATE OF FILING                   | 25/06/2020                                                                                                                                                               |
| APPLICANT NAME                   | 1 . Mr. YOGESH. L<br>2 . Dr. G. JEGAN<br>3 . Dr. T. VINO<br>4 . Dr. PREETHA EVANGELINE D<br>5 . Dr. JOHN RAJAN A<br>6 . Dr. CHRISTOPHER CLEMENT<br>7 . Dr. ASHISH KHAIRA |
| TITLE OF INVENTION               | EMERGENCY NOTIFICATION SYSTEMS FOR USE WITH FOOTWEAR FOR USER'S SAFETY                                                                                                   |
| FIELD OF INVENTION               | MECHANICAL ENGINEERING                                                                                                                                                   |
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| PRIORITY DATE                    |                                                                                                                                                                          |
| REQUEST FOR EXAMINATION DATE     | --                                                                                                                                                                       |
| PUBLICATION DATE (U/S 11A)       | 10/07/2020                                                                                                                                                               |

### Application Status

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(54) Title of the invention : EMERGENCY NOTIFICATION SYSTEMS FOR USE WITH FOOTWEAR FOR USER<sup>TM</sup>S SAFETY

|                                               |               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (51) International classification             | :A61B<br>5/00 | (71)Name of Applicant :<br><b>1)Mr. YOGESH. L</b><br>Address of Applicant :UG Student, Department of ECE,<br>Sathyabama Institute of Science and Technology , Chennai, Tamil<br>Nadu, India Pin: 600119. Tamil Nadu India |
| (31) Priority Document No                     | :NA           | <b>2)Dr. G. JEGAN</b>                                                                                                                                                                                                     |
| (32) Priority Date                            | :NA           | <b>3)Dr. T. VINO</b>                                                                                                                                                                                                      |
| (33) Name of priority country                 | :NA           | <b>4)Dr. PREETHA EVANGELINE D</b>                                                                                                                                                                                         |
| (86) International Application No             | :NA           | <b>5)Dr. JOHN RAJAN A</b>                                                                                                                                                                                                 |
| Filing Date                                   | :NA           | <b>6)Dr. CHRISTOPHER CLEMENT</b>                                                                                                                                                                                          |
| (87) International Publication No             | : NA          | <b>7)Dr. ASHISH KHAIRA</b>                                                                                                                                                                                                |
| (61) Patent of Addition to Application Number | :NA           | (72)Name of Inventor :                                                                                                                                                                                                    |
| Filing Date                                   | :NA           | <b>1)Dr. M. SARAVANAN</b>                                                                                                                                                                                                 |
| (62) Divisional to Application Number         | :NA           | <b>2)SHEIK SAIDHBI</b>                                                                                                                                                                                                    |
| Filing Date                                   | :NA           | <b>3)Dr. P. SAKTHIVEL</b>                                                                                                                                                                                                 |
|                                               |               | <b>4)Dr. A. CHANDRASHEKHAR</b>                                                                                                                                                                                            |
|                                               |               | <b>5)PARTHASARATHY P</b>                                                                                                                                                                                                  |
|                                               |               | <b>6)Mrs. HARIKA DEVI</b>                                                                                                                                                                                                 |
|                                               |               | <b>7)Dr. K. CH. SRI KAVYA</b>                                                                                                                                                                                             |

(57) Abstract :

Disclosed is an emergency notification system (100) for use with footwear (202) for users safety that includes a piezoelectric sensor (102), a particle cellular device (104), a microcontroller, and an antenna (106). The piezoelectric sensor (102) measures changes in pressure, acceleration, and force on receiving pressure and force exerted from foot in a predefined rhythmic pattern. The piezoelectric sensor (102) converts the measured changes into electrical data. The particle cellular device (104) captures geo-coordinate. The microcontroller processes the electrical data to identify that the predefined rhythmic pattern received from the piezoelectric sensor (102) is the same as a stored rhythmic pattern. The antenna (106) transmits the captured the geo-coordinate of the user to the particle cloud (204) with over the air (OTA) interface for tracking a location of the user when the microcontroller identifies a similarity in the predefined rhythmic pattern and the stored rhythmic pattern. The particle cloud (204) transmits the captured geo-coordinate to one or more computing devices. The most illustrative drawing: FIG. 1.

No. of Pages : 26 No. of Claims : 10