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Application Details	
APPLICATION NUMBER	201911034029
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/08/2019
APPLICANT NAME	1 . DR. AMBUJ KUMAR AGARWAL 2 . G. CHANDRA SEKHAR 3 . PROF.(DR.) S. B. CHORDIYA 4 . DR. B. VENKATESH 5 . MR. PRANAV SHANKARRAO PISE 6 . DR. SHADAB ADAM PATTEKARI
TITLE OF INVENTION	AIBIA-DRIVING: AI BASED INTELLIGENT ALARM HAVING AN INBUILT SENSOR TO PREVENT ACCIDENTS WHILE DRIVING.
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/09/2019

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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Patent Search

Invention Title	AIBIA-DRIVING: AI BASED INTELLIGENT ALARM HAVING AN INBUILT SENSOR TO PREVENT ACCIDENTS WHILE DRIVING.
Publication Number	36/2019
Publication Date	06/09/2019
Publication Type	INA
Application Number	201911034029
Application Filing Date	23/08/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04N7/188

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Name	Address	Country	Nationality
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Applicant

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Abstract:

My Invention "AIBIA-DRIVING" A device consisting of an inbuilt sensor, camera and an alarm is been thought of. The camera in the device would check whether if the driver is sleeping or not. If caught sleeping it would send a message to the device. The sensor fitted in the device would check the activity of the driver. If the driver hasn't touched the steering for more than 8 seconds then would send a message to the device. If this both activities happen at the same time then an alarm in the device would start ringing. Even if the driver hasn't lost his sleep due to the alarm a water spray would splash high pressure water onto the face of the driver making the driver loose his sleep and eventually continuously decreasing the speed of the car. The device can be switched on automatically. This device can be connected to the battery of the car and it would run on it. This can be very beneficial and live saving device for today's date.

Complete Specification

FIELD OF THE INVENTION

[10] The present AIBIA-DRIVING invention in general relates to a field of vehicle driving specially at night time.

[20] User Faces The Problem : People tend to lose their lives while driving at night time due to sleeping or else causes severe problems to their body. Such type of accidents have been increasing as drivers fall asleep while driving at night.

BACKGROUND OF THE INVENTION

[30] Automated vehicles have been developed, These automated vehicles are way too expensive for the middle aged class of India. India still hasn't had any automated vehicles till date. To have this necessity needed a device which would prevent such accidents should be developed soon. A device which would be accessible on any vehicle costing people not too much. This would be beneficial to the Indian transport.

[40] This invention relates to human sleepiness, drowsiness or (lack of) alertness detection and monitoring, to provide a warning indication in relation to the capacity or fitness to drive or operate (moving) machinery. Although its rationale is not fully understood, it is generally agreed that sleep is a powerful and vital, biological need, which—if ignored—can be more incapacitating than realized, either by a sleepy individual subject, or by those tasking the subject.

[50] As such, the invention is particularly, but not exclusively, concerned with the (automated) recognition of sleepiness and performance-impaired fatigue in drivers of motor vehicles upon the public highway. Professional drivers of, say, long-haul freight lorries or public transport coaches are especially vulnerable to fatigue, loss of attention and driving impairment. With this in mind, their working and active driving hours are already carefully monitored to ensure they are within prescribed limits.

[60] Road accidents, some with no apparent external cause, have been attributed to driver fatigue. Studies, including those by the Applicants themselves, (see the list of

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Page last updated on: 26/06/2019

<p align="center">FORM 1</p> <p>THE PATENTS ACT 1970 (39 of 1970) & The Patents Rules, 2003 APPLICATION FOR GRANT OF PATENT (See sections 7, 54 & 135 and rule 20(1))</p>	<p align="center">(FOR OFFICE USE ONLY)</p> <p>Application No: Filing Date Amount of Fees Paid: CBR NO: Signature:</p>
1. APPLICANTS REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)	

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()

3A. APPLICANT(S):

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3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]

Natural Person (✓)	Other than Natural Person ()		
	Small Entity ()	Startup ()	Others ()

4. INVENTOR(S): [Please tick (✓) at the appropriate category]

Are all the inventor(s) same as the applicant(s) named above?	Yes (✓)	No ()
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If "No", furnish the details of the inventor(s) N.A

Name	Nationality	Country of Residence	Address
NA	NA	NA	NA

5. TITLE OF THE INVENTION:

AIBIA-DRIVING: AI BASED INTELLIGENT ALARM HAVING AN INBUILT SENSOR TO PREVENT ACCIDENTS WHILE DRIVING.

6. AUTHORISED REGISTERED PATENT AGENT(S)		NA
ADDITIONAL PATENT AGENTS	NA	

7. ADDRESS FOR SERVICE OF APPLICANT/ PATENT AGENT(S) IN INDIA DR. AMBUJ KUMAR AGARWAL Address: MMIG-93, RAM GANGA VIHAR PHASE-I, MDA COLONY, MORADABAD, UP , INDIA E-mail: ambuj4u@gmail.com	Mobile No.: 8059794469 E-mail: dr.bksarkar2003@yahoo.in
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8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION: N.A

Country	Appln. Number	Filing Date	Name of the Applicant	Title of the Invention	IPC (as classified in the convention country)
NA	NA	NA	NA	NA	NA

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT):

International application number	International filing date as allotted by the receiving office.
NA	NA

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION : N.A

Original (first) application number	Date of filing of Original (first)
-------------------------------------	------------------------------------

	application
N.A.	N.A.

**11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54,
PARTICULARS OF MAIN APPLICATION OR PATENT: N.A**

Main application / patent Number	Date of filing of main application
N.A.	N.A.

12. DECLARATIONS:

(i) Declaration by the Inventor:

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above named inventor are the true & first inventor for this invention and declare that the applicant herein is my assignee or legal representative:

NA

(ii) Declaration by the applicant/s in the convention country:

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/~~are~~-my/~~our~~ assignee or legal representative. : N.A.

(iii) Declaration by the applicants:

We, the applicants hereby declare that: -

1. We are in possession of the above-mentioned invention.
2. The **Complete Specification** relating to the invention is filed with this application.
3. 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 us before the grant of patent to us: N.A.
4. There is no lawful ground of objection to the grant of the patent to me/ us.
5. We are the assignees or legal representatives of true and first inventors:
6. The application or each of the applications, particulars of which are given in Para – 8 was the first application in convention country/countries in respect of our invention: N.A.
7. We claim the priority from the above mentioned application filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by us or by any person from which we derive the title: YES

8. Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para-9: **N.A.**
9. The application is divided out of our application particulars of which is given in Para-10 and prays that this application may be treated as deemed to have been filed on N.A. Under sec.16 of the Act: **N.A.**
10. The said invention is an improvement in or modification of the invention particulars of which are given in Para-11 :**N.A.**

FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete specification) #	No. of pages:		
Claim(s)	No. of claims: No. of pages:		
Abstract	No. of pages:		
Drawing(s)	No. of drawings: No. of pages:		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

1. Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
2. Sequence listing in electronic form **N.A**
3. Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
4. Statement and Undertaking on Form-3
5. Declaration of Inventor ship on Form-5
6. Request For Publication Form9 , 2750.Rs
7. Form18 Examination Request, 4400.Rs
8. Power of Authority
9. Other Form 4 to 31 According to needed can fill.

Total fee Rs/- **in Cash/ Banker's Cheque /Bank Draft bearing No.....**

Date.....on..... Bank.

We hereby declare that to the best of my knowledge, information and belief the facts and matters stated herein are correct and I request that a patent may be granted to me for the said invention.

Dated this day of.....23/8/2019

DR. AMBUJ KUMAR AGARWAL

G. CHANDRA SEKHAR(ASSISTANT PROFESSOR, DEPARTMENT OF CSE)

PROF.(DR.) S. B. CHORDIYA (DIRECTOR-SIMMC-CAMPUS)

DR. B. VENKATESH (PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING)

MR. PRANAV SHANKARRAO PISE

DR. SHADAB ADAM PATTEKARI (ASSOCIATE PROFESSOR DEPT. COMP)

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