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Application Details				
APPLICATION NUMBER	201911051405			
APPLICATION TYPE	ORDINARY APPLICATION			
DATE OF FILING	12/12/2019			
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TITLE OF INVENTION	AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY			
FIELD OF INVENTION	ELECTRONICS			
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E-MAIL (UPDATED Online)				
PRIORITY DATE				
REQUEST FOR EXAMINATION DATE				
PUBLICATION DATE (U/S 11A)	27/12/2019			

Application Status



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Patent Search

Invention Title	nvention Title AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY				
Publication Number	ation Number 52/2019				
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Field Of Invention	ELECTRONICS				
Classification (IPC)	G08G0001080000,G08G0001095000,G08G0001081000,G08G0001010000,G08G0001082000				
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Albstract"

My Invention "AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY" is a intelligent traffic control system includes a micro controller, an data processing unit, a data bus to taking status from a traffic light system and some obstacle bars - side bars. This invention "AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY " also take carefully like data processing unit, controls unit , behavior and other display based on the information of data bars. The controller device controls the activation of red, orange and green lights the whole traffic control system or traffic signal system. In our invention AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY" there are some obstacle bars and side bars mounted on it. at the end of orange light activate then obstacle bars comes up vertically, they remain in standing position until the red light turns in green, the main motto of the system is to avoid accidents and to maintain disciplinary actions. This invention ITDM-System take auto decision if any special vehicle needed to move then also allow according to current situation. My Invention "AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY " also an intelligent traffic management system based on an inter-vehicle network comprises a wireless communication module, a computation module, a control module, a traffic light signal display module, a storage module and a fault detection module, is in communication with an inter-vehicle network communication management device on a vehicle through the wireless communication module, and computes traffic flow and density at road junctions by combining internal algorithm of the computation module. By the aid of the AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY "in the technical scheme, technical problems that road traffic ability is low, consequentially energy sources and time are wasted and the like due to the fact that traffic signal control systems in the prior art cannot acquire traffic flow and vehicle running speed accurately are solved. The AUTOMATIC TRAFFIC CONTROL AND TRAFFIC DUTY MANAGEMENT TECHNOLOGY "based on the inter-vehicle network has the advantages that accurate traffic information of vehicles at the road junctions can be acquired in time, time setting of traffic lights can be adjusted in time, traffic efficiency of roads is improved, running speed of special vehicles such as firefighting vehicles, ambulances and the like is guaranteed, an automatic fault detection function can be realized, the time setting of the traffic lights at the road junctions can be optimized, and accordingly vehicle traffic ability can be increased.

Complete Speciffication

This invention relates traffic control using includes a micro controller, an data processing unit, a data bus to taking status from a traffic light system and some obstacle bars side bars.

BACKGROUND OF THE INVENTION [20] Principle: In our invention, some delay's are given to actuating the lights, at the end of orange lights obstacle bars will vertically come in upward direction, the bar remain at this position until the red lights turns to green lights. Assume the orange lights lighten up to 10 sees, the bars will ready to move in vertical direction in last 3 sees. i.e. means bars will start moving in after 7 sees. As the red lights is lightning for 40 sees. The bars will ready to move in vertically downward direction in last 5 sees, i.e. after 35 sees. And when the light turns to green then bars will go down under the road. To operate the bars we are using worm and worm wheel assembly. The bars are divided into 3 parts, at top the material used is very soft and flexible. Middle portion material used is soft or fiber and at bottom portion is very hard. top portion used is flexible because it is soft so chances of accident reduced.

[30] You know signals have long been used to regulate the flow of traffic at intersections. Generally, traffic signals have relied on timers or vehicle sensors to determine when to change the phase of traffic signal lights, thereby signaling alternating directions of traffic to stop, and others to proceed. Emergency vehicles, such as police cars, fire trucks and ambulances, are generally permitted to cross an intersection against a traffic signal. Emergency vehicles have typically depended on horns, sirens and flashing lights to alert other drivers approaching the intersection that an emergency vehicle intends to cross the intersection. However, due to hearing impairment, air conditioning, audio systems and other distractions, often the driver of a vehicle approaching an intersection will not be aware of a warning being emitted by an approaching emergency vehicle.

[40] There are presently a number of optical traffic priority systems that permit emergency vehicles to preempt the normal operation of the traffic signals at an intersection in the path of the vehicle to permit expedited passage of the vehicle through the intersection. These optical traffic priority systems permit a code to be embedded into an optical

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Page llast wpdated om: 26/06/2019

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

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

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

3A. APPLICANT(S):

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(DIRECTOR)			SARNATH ROAD ASHOKA
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			PAHARIA, VARANASI, UTTAR
			PRADESH 221007 ,INDIA.

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

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

` , _	· /	0 5-
Are all the inventor(s)	Yes (🗸)	No ()
same as the		
applicant(s) named		
above?		

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:

AUTOMATIC TRAFFIC CONTROL AND TRAFFIC **D**UTY **M**ANAGEMENT TECHNOLOGY

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

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CAMPUS, JAIN UNIVERSITY, BANGALORE-560 069, INDIA		

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION: N.A

Country	App. 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	International filing date as allotted by the
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number	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)
N.A.	application 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:

- 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	No. of pages:		
specification) #			
	No. of claims:		
Claim(s)	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.

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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...12/12/2019

DR. HARI OM SHARAN (DEAN)
DR. SAKTHI GANESH M (PROFESSOR, SCHOOL OF COMPUTER SCIENCE AND ENGINEERING)
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PROF. DR. BEG RAJ SINGH (DIRECTOR)

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