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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(Om Prakash Gupta)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

4th DECEMBER, 2020

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KOLKATA, 04/12/2020**

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पेटेंट कार्यालय
कोलकाता, दिनांक 04/12/2020

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<p>2 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ <input type="checkbox"/> गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दावर और नगर हवेली.</p>	<p>5 पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र</p>
<p>3 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>	

वेबसाइट: <http://www.ipindia.nic.in>
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18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

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Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is there is no third party representation.

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(54) Title of the invention : AUTONOMOUS DYNAMIC TRAFFIC SIGNAL POSTS

(51) International classification	:G08G 1/095	(71) Name of Applicant : 1)Yogesh Kumar Madaria Address of Applicant :Malla Reddy Engineering College, Main Campus, Maisammaguda, Dhulapally, Kompally, Secunderabad, Telangana 500100 Telangana India
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(57) Abstract :

Roadway is the most used mode of transportation of goods, people and machinery. In most of the busy roads in major cities, the traffic congestion, especially near the traffic signals, is severe. The non-dynamic nature of green signal duration leads to increase in congestion, which ultimately results in increased waiting time for the vehicles. Adaptive timing of green signal based on the traffic density can be a potential solution. The proposed Autonomous Dynamic Traffic Signal Post (ADTSP) will determine the traffic density in an intersection in real-time. It will calculate the optimized green signal duration for a direction and thus will regulate the traffic in all the roads that are connected. The installation and implementation of ADTSP will obviously lead to reduction in pollution level and fuel consumption. Thus this technique can be treated as a techno-economical and eco-friendly feasible solution to the grave problem of traffic congestion.

No. of Pages : 4 No. of Claims : 5

Title of the Invention

Autonomous Dynamic Traffic Signal Posts.

Field of Invention

Traffic management - Optimization of signal duration at the traffic intersections

Background

Traffic congestion is a severe problem in major cities of India. One of the key reasons for this is improper management of traffic signal duration. With adaptive green signal duration, this problem can be tackled to a good extent.

Objectives of the Invention

1. To determine the traffic density at the signal intersection in all the directions
2. To optimize the duration of green signal in all the directions leading to optimization of waiting time
3. To regulate the rate of flow of traffic and minimize traffic congestion
4. To reduce pollution (air & sound) and fuel consumption

Description

Referring to Fig. 1, the Autonomous Dynamic Traffic Signal Post (ADTSP) comprises a transparent plastic sheet (1) with grooves to place the LEDs (2) from inside, a slot to support the camera, a camera (3), a circuit board (4) (Refer Fig. 2) having a microprocessor (5), a RAM (6), a secondary memory (optional) (7), a wi-fi module (8) and I/O ports (9). In addition, the ADTSL will be fitted with a wiper (10) to ensure the cleanliness of the camera lens. A container (11) to store soap solution will be attached to the unit, to supply the soap solution while operating the wiper. Thus the functioning of the wiper and that of the sprinkler (12) will be synchronized. An Estimated Waiting Time Display (EWTD) will be fitted to the unit to display the waiting time (calculated by the system, based on traffic density) for the convenience of passengers.

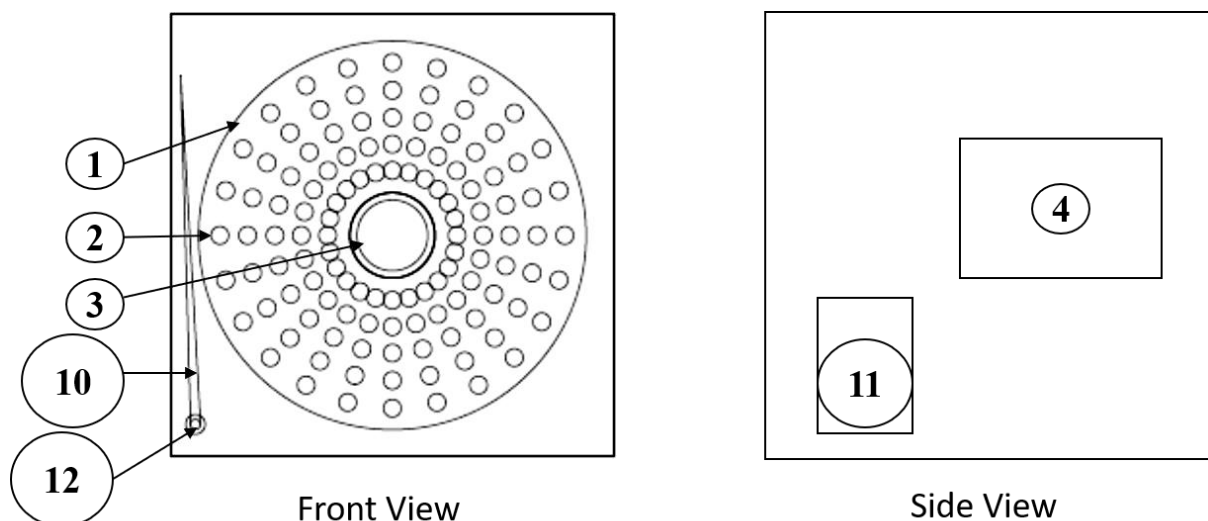


Fig. 1 Block diagram of Autonomous Dynamic Traffic Signal Post

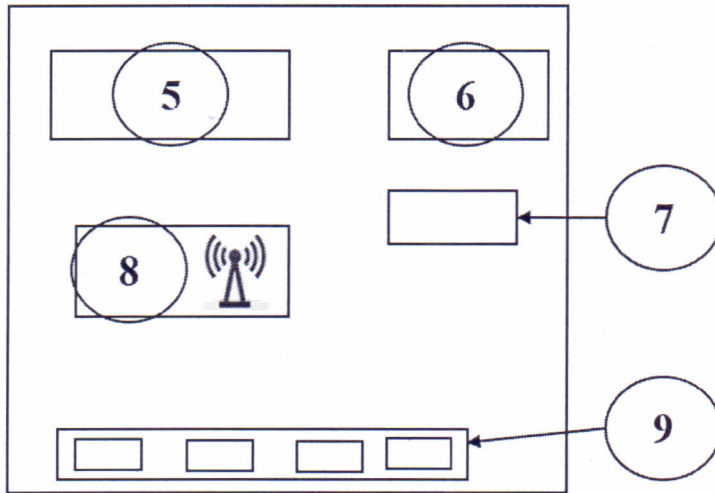


Fig. 2 Block diagram showing the components of the circuit board (4) in Fig. 1

Date: 21/11/2020

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