(54) Title of the invention : LIFI BASED INDUSTRIAL PARAMETERS MONITORING SYSTEM

(51) International classification : H04B0010116000, H04B0010114000, H02J0007350000, H04B0010110000, H04B0010500000 (86) International Application No Filing Date : NA : NA (87) International Publication No : NA (61) Patent of Addition to Application Number Filing Date : NA : NA (62) Divisional to Application Number Filing Date : NA : NA	(71)**Name of Applicant :** 1)**Malla Reddy Engineering College** Address of Applicant :Malla Reddy Engineering College Dhulapally post via Kompally Maisammaguda Secunderabad -500100 Secunderanad ---------- ----------- 2)**Dr.V.Sampath Kumar** 3)**B.Baswaraj** 4)**V.Siddhartha** 5)**B.Nagaraju** 6)**V.John Wesly** 7)**Ms. Y. Vijaya Lakshmi** 8)**Dr.Sukanth.T** 9)**Mr. Kolusu Mohan Murali Tarakesh** **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** 1)**Malla Reddy Engineering College** Address of Applicant :Malla Reddy Engineering College Dhulapally post via Kompally Maisammaguda Secunderabad -500100 Secunderanad ---------- ----------- 2)**Dr.V.Sampath Kumar** Address of Applicant :professor, Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number: sampath.vankadara62@gmail.com 9491838146 Secunderabad ---------- ----------- 3)**B.Baswaraj** Address of Applicant :Student, Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number:rajbaswa316@gmail.com&6302503328 Secunderabad ---------- ----------- 4)**V.Siddhartha** Address of Applicant :Student Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number: siddharthavempati1704@gmail.com & 7032928475 Secunderabad ---------- ----------- 5)**B.Nagaraju** Address of Applicant :Student, Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number:nagarajubalamarthi13320@gmail.com&7780660860 Secunderabad ---------- ----------- 6)**V.John Wesly** Address of Applicant :Student, Electrical and Electronics Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. State:Telangana Email ID & Contact Number:johnwesly2211@gmail.com&7680071232 Secunderabad ---------- ----------- 7)**Ms. Y. Vijaya Lakshmi** Address of Applicant :Assistant Professor ? Electrical and Electronics Engineering Dept., Bharat Institute of Engineering and Technology, Mangalpally Village Ibrahimpatnam Mandal Telangana 501510 State:Telangana Email ID & Contact Number:yarra.lakshmi@gmail.com& 9676535419 Hyderabad ---------- ----------- 8)**Dr.Sukanth.T** Address of Applicant :Assistant Professor Department of Electrical and Electronics Engineering,CBIT(A),Gandipet,Hyderabad-500075. State:Telengana Email ID & Contact Number: sukantht_eee@cbit.ac.in& 9885785450 Hyderabad ---------- ----------- 9)**Mr. Kolusu Mohan Murali Tarakesh** Address of Applicant :Assistant Professor, Electrical & Electronics Engineering Dept,Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous), Sontyam village, Anandapuram Mandal, Visakhapatnam,531173. State: Andhra Pradesh Email ID & Contact Number:mohanmuralitarakesh@gmail.com & 8985880153 Visakhapatnam ---------- -----------

(57) Abstract :
ABSTRACT The main objective is to design the monitoring and control system for industrial parameter using Li-Fi communication. The industrial parameters are not monitored and controlled properly, it occurs to an abnormal condition. Monitoring is most important in industry. Monitoring is done by sensor with most accuracy and reliability. Control process will also be handled by this Li-Fi communication. Arduino decodes the commands are given through Li-Fi with the help of LED and control the industrial devices through relays. The interfacing between Li-Fi transmitter and Li-Fi receiver is done by Arduino. Li-Fi technology uses LED's for transmitting data. It is derivative of optical wireless communication technology using light from Led to deliver high speed communication. Visible light communication works by switching the Led off and on at very high speed, it can'tbe noticed by the human eye. The intensity of the Li-Fi LED emitter is kept low enough so that it cannot be seen by the human eye but high enough to carry out the communication easily. This concept was taken this paper to reduce human efforts in industry. Keywords:LED's , Transmitter , Receiver , Arduino , Solar panel , Sensors

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