

(54) Title of the invention : SYSTEM AND DEVICE FOR MONITORING UNDERWATER WIRELESS SENSOR NETWORK BASED APPLICATIONS

<p>(51) International classification :H04B0013020000, B60R0021000000, G01S0015580000, G08G0005020000, H04Q0011000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)CHOUDHARY, Monika Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>2)GOYAL, Nitin Address of Applicant :Computer Science Engineering Department, Shri Vishwakarma Skill University, Palwal, Haryana - 121102, India. -----</p> <p>3)KUMAR, Manni Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>4)PANDITH, Aadil Mushtaq Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>5)GULERIA, Kalpna Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>6)KAUSHAL, Rajesh Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>7)KUMAR, Naveen Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>8)RANI, Shikha Address of Applicant :National Institute of Technology, Kurukshetra - 136119, Haryana, India. -----</p>
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(57) Abstract :

The present invention relates to a system and device for monitoring Under Water Sensor Network (UWSN) based applications. The system comprising: a network device (106) communicatively coupled with one or more underwater nodes (102) in a UWSN network (104); one or more surface sink nodes (108) comprising one or more mobile sink nodes (MS) (110); the one or more underwater nodes comprises one or more courier nodes (CN's) (112); the network device further comprising one or more sensors (208), a storage unit (224), and a processor operatively coupled to a memory unit, said memory storing executable instructions on execution of which the processor causes the network device to receive a set of signals from the one or more underwater nodes, stores, compares, compress, and transmits the compressed set of signals to the one or more surface sink nodes.

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