

(54) Title of the invention : CONTAMINATION AUTO-ALERT SMART WATER BOTTLE

<p>(51) International classification :G01N0033180000, G06Q0050060000, A47G0019220000, G06N0020000000, H02J0009060000</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 : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura ----- -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Gaurav Sharma Address of Applicant :Associate Professor, Department of Interdisciplinary Courses in Engineering (DICE), Chitkara University Institute of Engineering and Technology (CUIET), Chitkara University, Rajpura, Punjab-140401, India Rajpura ----- -----</p> <p>2)Mr. Raghav Goel Address of Applicant :1032, Near Bhatia daily needs, housing board colony, Basant Vihar, Kalka-133302, Haryana, India Kalka ----- -----</p> <p>3)Mr. Shivam Aggarwal Address of Applicant :428/3 old Kausali road, near municipal committee, Kalka-133302, Haryana, India Kalka ----- -----</p> <p>4)Ms. P Kavitha Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, CVR College of Engineering, Vastunagar, Mangalpalli (V), Ibrahimpatnam (M), Rangareddy (D), Hyderabad, Telangana-501510, India Hyderabad ----- -----</p> <p>5)Dr. Bharti Sharma Address of Applicant :Flat No. 236, Block D2, Penta Homes, VIP Road, Zirakpur-144603, Punjab, India Zirakpur ----- -----</p> <p>6)Mr. Anil Kumar Address of Applicant :Sr. Manager, Capgemini Technology Services India Limited, 139, Noida Special Economy Zone, Phase-2, Noida, Uttar Pradesh-201305, India Noida ----- -----</p>
---	--

(57) Abstract :
 ABSTRACT The present disclosure introduces a contamination auto- alert smart water bottle system 100 which is designed to provide real-time water quality monitoring and alert capabilities. The system comprises a smart water bottle 102 equipped with Water Quality Sensors 104 (pH and TDS sensors) for detecting various contaminants in the water. The integrated IoT Module 106 and Communication Module 108 enable seamless data transmission to a server 112 for processing and analysis via a cloud computation unit 114. The system generates contamination alerts through an intuitive Mobile interface 118, allowing users to assess the water quality in various environments. Through APIs 116, the system provides third-party integration and advanced water safety insights. Powered by a reliable power supply 110, the system enhances public health by ensuring that users have access to safe drinking water. This innovation sets a new standard in comprehensive water quality monitoring through its user-friendly interface and robust data-driven functionalities. Reference Fig 1

No. of Pages : 20 No. of Claims : 10