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(54) Title of the invention : WATER PURIFIER AND CONTROL METHOD THEREOF

<p>(51) International classification :C02F0001000000, B67D0001000000, B01D0046000000, B01D0061100000, C02F0001280000</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 : <b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>2)Chitkara Innovation Incubator Foundation</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)SINGH, Dhawan</b> Address of Applicant :Chitkara College of Applied Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>-</p> <p><b>2)SINGH, Abinash</b> Address of Applicant :Chitkara College of Applied Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p>-</p> <p><b>3)JINDAL, Himanshu</b> Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>4)THAKUR, Aditi</b> Address of Applicant :Department of Electronics and Communication Engineering, Eternal University, Baru Sahib, District- Sirmour, Himachal Pradesh - 173101, India. -----</p> <p>-</p> <p><b>5)SINGLA, Geetanjali</b> Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p>
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(57) Abstract :  
The present disclosure pertains to a water purifier (100) for purifying water, the water purifier (100) includes a main body (102) having one or more filtration units (108) to perform filtration at various steps, a cooling unit (122) to cool the water at a pre-defined temperature, and a heating unit (124) to heat the water at a temperature. In addition, the water purifier (100) includes a self-cleaning mechanism for cleaning and draining out the water stored after a pre-defined number of days. The water purifier also includes a self-controlling feature for terminating dispensing of the water if smell is found in the water, also the user is notified. The water purifier also includes an automatic power cut-off mechanism, when water is unavailable in the tank (106), and not receiving water from the source.

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