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## Patent Search

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### Abstract:

INSTANT ELECTRIC HEATING WATER FAUCET SYSTEM AND STRUCTURE The utility model discloses an instant heating, in particular to an instant heating water faucet system comprises a comprising with (1) main shell body, (2) induction coil, (3) flow convergent section, (4) flow divergent section, (5) top cover, (6) bottom cover, (7) heating tubes, temperature controller, (9) flow sensor, (10) NTC transistor, (11) transistor cover, (12) fasteners, (13) central control unit, (14) connectors, (15) power supply, (16) faucet syst utility model discloses an instant heating water faucet, comprising a housing, an electric heating device arranged in a chamber of the housing with a main control circuit u connected to the electric heating device, wherein a novel fabrication process of utility model is comprising with above mentioned components. The instant heating water f simple in structure, convenient for mounting and long in service life, and has high popularization value.

**Complete Specification**

Claims:1. An instant electric heating water faucet system comprising (1) main shell body, (2) induction coil, (3) flow convergent section, (4) flow divergent section, (5) top cover, (6) bottom cover, (7) heating tubes, (8) temperature controller, (9) flow sensor, (10) NTC transistor, (11) transistor cover, (12) fasteners, (13) central control unit, (14) connectors, (15) power supply, (16) faucet system;  
wherein threads for connecting the converging and diverging section on its end's periphery (1); and the induction (2) induces magnetic flux and heats up the heating tube which is solid copper wire of 2 mm diameter; it is located and wound on the periphery of the main shell body (1).

2. The system as claimed in claim 1, wherein the flow convergent section (3) converging the heated water to the outlet (16); and The flow divergent section (4) diverging the inlet water to the heating tubes; and Top cover (5) is the insulation of the induction coil from the environment for proper operation; Bottom cover is another part of insulation, which is located on the bottom side.

3. The system as claimed in claim 1, wherein the bottom and top section combining work as insulation and are joined through fasteners (6); and heating tubes are metal hollow tubes inserted inside the shell body cavities, through which the water will be heated; which comprises lip on one side, which help in its removal and insertion from shell body cavities in case of replacement (7).

4. The system as claimed in claim 1, wherein the temperature controller (8) comprises five modes of temperature knob; each increment defines a temperature of 10°C increment.

5. The system as claimed in claim 1, wherein said flow sensor function (9) is to sense the flow and activate heating, only when the water flow is in action. NTC transistor (10) is utilized for sensing the temperature and deactivate the heating when the temperature exceeds the maximum set coil temperature.

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