CLAIMS

1. A water supply system comprising:

- a central water supply,

- a plurality of water taps;

- an operation device located at one water tap,

- a piping system connecting the central water supply and the plurality of water taps, the piping system comprising a separate flow path from the central water supply to each water tap; and

- a controller for individually controlling a flow of water from the central water supply to the plurality of water taps and individually controlling an outlet temperature of the flow of water at an outlet of the central water supply; the controller comprising a valve for each water tap, the valve being configured for controlling both the flow of water and the outlet temperature of the flow of water;

wherein the controller is located at the central water supply, and wherein the controller is operable via the operation device at the water tap and is configured to control the flow of water and the outlet temperature based on a received demand from the operation device.

2. A water supply system according to claim 1, wherein the operation device is configured to generate an electric demand signal, and wherein the controller is configured to receive the electric demand signal and configured to control the flow of water and the outlet temperature in response to the demand signal.

3. A water supply system according to any of the preceding claims, wherein an operation device is located at each water tap, and wherein the operation device is configured for communication with the controller to control the flow of water to the water tap and to control the outlet temperature of the flow of water from the central water supply.

4. A water supply system according to any of the preceding claims, wherein the operation device is configured to receive an operation signal in the form of at least one of a touch signal, an audible signal, and a gesture signal, and configured to operate the controller based on the received signal.

5. A water supply system according to any of the preceding claims, further comprising a database, wherein the controller is in communication with the database comprising a plurality of predetermined control strategies, each defining a requested water flow and a requested temperature, and wherein the operation device is configured for selection of at least one predetermined control strategy.

6. A water supply system according to any of the preceding claims, wherein the controller comprises at least one flow regulator for controlling of the flow of water.

7. A water supply system according to any of the preceding claims, wherein the piping system comprises an inner tube and an outer tube being co-axially arranged, where the outer tube is configured for protection of the inner tube.

8. A water supply system according to any of the preceding claims, further comprising a monitoring unit, wherein the controller is configured to forward to the monitoring unit a use signal specifying the flow of water from the central water supply, and wherein the monitoring unit is configured to store said use signal.

9. A water supply system according to claim 8, wherein the controller is further configured to forward to the monitoring unit a temperature signal specifying the temperature of the flow of water from the central water supply, and wherein the monitoring unit is configured to store said temperature signal.

10. A water supply system according to any of the preceding claims, further comprising an additional supply device, wherein the central water supply is in fluid communication with the additional supply device comprising an additional medium, and wherein supply of the additional medium to at least one water tap is controlled by the controller.

11. A water supply system according to claim 10, wherein the controller is configured for simultaneous control of supply of the flow of water and supply of the additional medium to at least one water tap.

12. A method of controlling a water supply system comprising a central water supply; a plurality of water taps; an operation device located at one water tap; a piping system connecting the central water supply and the plurality of water taps, the piping system comprising a separate flow path from the central water supply to each water tap; and a controller for individually controlling a flow of water from the central water supply to the ~~at least one~~plurality of water taps and individually controlling an outlet temperature of the flow of water at an outlet of the central water supply, the controller comprising a valve for each

water tap, the valve being configured for controlling both the flow of water and the outlet temperature of the flow of water, the controller ~~is~~ being located at the central water supply; the method comprising a step of operating the controller via the operation device at the water tap to control the flow of water and the outlet temperature based on a received demand from the operation device.

13. A controller for controlling a flow of water in a water supply system, the controller comprising an operation device for receiving a user demand, a flow regulator and a temperature regulator for controlling a flow in the water supply system and for controlling an outlet temperature of the flow of water at an outlet of the central water supply, the controller comprising a valve for each water tap, the valve being configured for controlling both the flow of water and the outlet temperature of the flow of water; and a communication device for communication with the operation device, wherein the controller is configured to control the flow of water and an outlet temperature of the flow of water at an outlet of the central water supply based on a received demand from the operation device.

14. A controller according to claim 13, wherein the flow regulator and the operation device are two separate devices, and wherein the flow regulator is configured to be positioned at a central water supply.