

Title (en)
THERMOSTATIC MIXER WITH DEVICE FOR DYNAMIC REGULATION OF A WATER FLOW

Title (de)
THERMOSTATISCHER MISCHER MIT VORRICHTUNG ZUR DYNAMISCHEN REGELUNG EINES WASSERFLUSSES

Title (fr)
MELANGEUR THERMOSTATIQUE DOTE D'UN DISPOSITIF DE REGLAGE DYNAMIQUE D'UN FLUX D'EAU

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Application
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Abstract (en)
[origin: WO2006051389A1] The invention relates to a thermostatic mixer, comprising a device for the dynamic regulation of the cold water flow which supplies the mixer. Thermostatic mixers suitable for control of a large flow do not function correctly when the flow required is much less than the maximum flow for which designed, such as occurs, for example, when a thermostatic mixer for supply of a system with several showers is required to supply a single shower. Under these conditions thermostatic mixers lose stability and begin to oscillate such that the water flow exiting said mixers suffers continuous changes to the ratio of the mixture of hot and cold water and hence suffers temperature variations which are unpleasant for the user and can be dangerous. Said problem can be resolved whereby a resistance is generated to the flow of cold water supplied to the thermostatic mixer, when small flows of mixed water are required and said resistance is lifted or reduced when large flows of mixed water are required. Said operation is automatically carried out by devices for dynamic regulation of flow, whereby the flow cross-section provided for the incoming cold water is reduced when the drawn flow is reduced and a larger flow cross-section reestablished when a larger flow is required.

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