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(54) Title: ELECTRONICALLY CONTROLLABLE VALVES AND MIXING VALVES

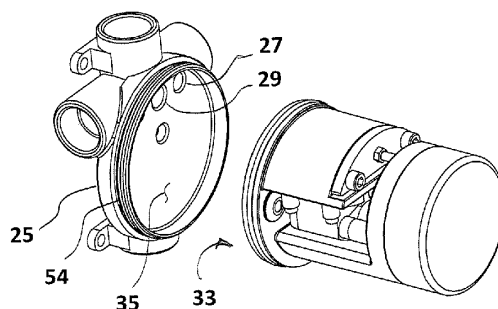


FIGURE 6

(57) Abstract: Two problems with existing electronically controlled mixing valves for domestic use is their size and difficulty accessing and repairing them. Their size means that they often become hidden behind wall linings, and because of the way in which they are plumbed into the pipework of a house, they are difficult to access and remove for repair or replacement. The solution proposed in the present invention is a compact and replaceable mixing valve cartridge that can be mated to a fixed fitting that is permanently plumbed into the pipework of a house. The compact size allows the cartridge to be positioned behind the type of removable face plates that are often installed over existing manually operated mixing valves. Simplified valve actuators and a compact mixing and temperature sensing configuration have facilitated the compact size. The valve cartridge can simply be accessed, unbolted and removed, without the need for extensive plumbing re-work.

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Declarations under Rule 4.17:

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
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