Summary of the Invention

According to the present invention there is provided a shower head assembly comprising a body having a flow passage therethrough, said flow passage having an outlet opening at an outer end thereof, and a plurality of inserts, each insert being adapted to be releasably mounted within the outlet opening of the body and including a flow restriction adapted to create a spray of water from the shower head, each insert being securable within the outlet opening by cooperating formations formed on an outer wall of the insert and an inner wall of said outlet opening enabling periodic removal and replacement of the insert from the outlet opening of the body, wherein each of said plurality of inserts is a different colour such that said~~.~~

~~Said~~ inserts are visually distinguishable from one another. ~~In one embodiment each of said plurality of inserts may be a different colour.~~

Preferably said cooperating formations enable removal of a respective insert from the outlet opening by rotation of the insert with respect to the body. In one embodiment said cooperating formations may comprise cooperating threads formed on the outer wall of each insert and the inner wall of the outlet opening of the body. Alternatively said cooperating formations may comprise a bayonet fitting comprising pins provided one of the outer wall of each insert and the inner wall of the outlet opening of the body and cooperating L shaped slots provided on the other of the outer wall of each insert and the inner wall of the outlet opening for receiving said pins to retain each insert respectively within the outlet opening.

The assembly may further comprise a tool having recesses adapted to engage projections formed on an outer face of each insert whereby said recesses on the tool can be engaged with said projections on a respective insert to facilitate rotation of the insert with respect to the tool. A first tool may be provided having recesses adapted to engage said projections on a respective insert to enable rotation of the insert in a first direction to enable removal of the insert from the outlet opening and a second tool having recesses adapted to engage said projections on a respective

Claims

1. A shower head assembly comprising a body having a flow passage therethrough, said flow passage having an outlet opening at an outer end thereof, and a plurality of inserts, each insert being adapted to be releasably mounted within the outlet opening of the body and including a flow restriction adapted to create a spray of water from the shower head, each insert being securable within the outlet opening by cooperating formations formed on an outer wall of the insert and an inner wall of said outlet opening enabling periodic removal and replacement of the insert from the outlet opening of the body, wherein each of said plurality of inserts is a different colour such that said inserts are visually distinguishable from one another.

~~wherein said inserts are visually distinguishable from one another.~~

~~2. A shower head assembly as claimed in claim 1, wherein each of said plurality of inserts is a different colour.~~

~~3~~2. A shower head assembly as claimed in any preceding claim, wherein said cooperating formations enable removal of a respective insert from the outlet opening by rotation of the insert with respect to the body.

~~3~~4. A shower head assembly as claimed in claim ~~3~~2, wherein said cooperating formations comprise cooperating threads formed on the outer wall of each insert and the inner wall of the outlet opening of the body.

~~4~~5. A shower head assembly as claimed in claim ~~3~~2, wherein said cooperating formations comprise a bayonet fitting comprising pins provided one of the outer wall of each insert and the inner wall of the outlet opening of the body and cooperating L shaped slots provided on the other of the outer wall of each insert and the inner wall of the outlet opening for receiving said pins to retain each insert respectively within the outlet opening.

~~5~~6. A shower head assembly as claimed in any of claims 2~~4~~ to ~~6~~4, further comprising a tool having recesses adapted to engage projections formed on an

outer face of each insert whereby said recesses on the tool can be engaged with said projections on a respective insert to facilitate rotation of the insert with respect to the tool.

67. A shower head assembly as claimed in claim 56, further comprising a first tool having recesses adapted to engage said projections on a respective insert to enable rotation of the insert in a first direction to enable removal of the insert from the outlet opening and a second tool having recesses adapted to engage said projections on a respective insert to enable rotation of the insert in a second direction, opposite said first direction, to enable the insert to be secured within the outlet opening.

78. A shower head assembly as claimed in any preceding claim, wherein an outer face of each insert includes a plurality of apertures formed therein defining a spray plate.

89. A shower head assembly as claimed in any of claims 1 to 67, wherein each insert includes a deflector element integrally formed therein, said deflector element comprising a head portion arranged to be located centrally within the insert and an elongate stem extending inwardly from the head portion into said flow passage of the body when the insert is located within the outlet opening of the body to define a flow restriction within said flow passage, the deflector element being supported within the insert by at least one elongate rib extending between the outer wall of the insert and the deflector element.

910. A shower head assembly as claimed in claim 98, wherein the deflector element of each insert is supported by a plurality of radially extending ribs extending between the outer wall of the insert and the deflector element, said ribs being equi-spaced around the deflector element.

1011. A shower head assembly as claimed in claim 910 when dependent upon ~~any~~ claim ~~67 or claim 8~~, wherein said ribs define said projections engaged by said recesses on said tool or tools.

1112. A shower head assembly as claimed in any of claims 89 to 1011, wherein an underside of the head portion of the deflector element of each insert defines a dish shaped surface facing the flow passage of the body when the respective insert is located within the outlet opening of the body of the shower head.

123. A shower head assembly as claimed in claim 1112, wherein the walls of the flow passage of the body comprise an enlarged region having a conical surface converging axially outwardly and terminating in a substantially cylindrical surface to define a bowl shaped region, wherein said head portion of the deflector element is located immediately upstream of said bowl shaped region when the respective insert is located within the outlet opening of the body.

1314. A shower head assembly as claimed in any of claims 89 to 132, wherein at least a portion of the stem of the deflector element and/or a cooperating region of the flow passage is tapered or otherwise shaped such that the flow restriction defined by said tapered region within the flow passage can be adjusted by adjusting the axial position of the respective insert within the outlet opening of the body.

~~15. A shower head assembly substantially as herein described with reference to the accompanying drawings.~~