12. The beverage system according to claims 3 and 11, characterized in that the elongated cleaning member (102) is able to automatically occupy said two positions depending on the injection or not of liquid into the at least one inner through channel, said elongated cleaning member being in said first active position in the absence of liquid injection thereinto, said elongated cleaning member being in said second active position due to the pressure of liquid injected into the at least one inner through channel.

13. The beverage system according to claim 12, characterized in that the cleaning device (90) includes active means (106) for exerting upon the elongated cleaning member a first predetermined force (F1) so as to urge said elongated cleaning member to be inserted into the at least one inner through channel with a view to occupying the first active position, said elongated cleaning member (102) being able to be pushed backwards under the action of the pressure of the liquid to be injected into the at least one inner through channel and which counteracts the first predetermined force so that the elongated cleaning member is at least partly withdrawn from said at least one inner through channel.

14. The beverage system according to any preceding claim, characterized in that the beverage preparation machine (2) includes a capsule-holder (58) for holding the ingredient capsule.

15. A beverage system according to claim 1, ~~An assembly comprising a channel (75; 210) in which a liquid temporarily flows and a cleaning device for cleaning said channel~~ wherein said cleaning device for cleaning said channel (75; 210) in which a liquid temporarily flows including :

- a support member (100; 226);
- an elongated cleaning member (102; 232) connected to the support member and that is suitable for being inserted into the channel for cleaning thereof;
- said support member and elongated cleaning member being movable in a forward direction under the action of a predetermined force so as to be urged to occupy a first active position in which said elongated cleaning member extends within the channel (75; 210) through to the free emerging end thereof, said support member and elongated cleaning member being movable in a backward direction under the action of an opposed predetermined force so as to be urged to occupy a second rest position in which said elongated cleaning member is at least partly withdrawn from said channel.

16. Method for preparing a beverage with a beverage preparation machine (2; 200) by injection of a liquid into an ingredient capsule, said machine comprising