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(57) Abstract :

A cap assembly (100) for water generation from ambient air is disclosed. The proposed cap assembly (100) has a body attached to a bottle (102), where the body is configured with one or more apertures (104) for drawing ambient air into the body. A water generator unit (106) is attached to the body that converts the ambient air into water. A filtration means (108) is configured to filter the generated water, where the filtered water is collected in the bottle (102). Also, the proposed cap assembly is provided with one or more sensors (110) configured to detect level of water in the bottle (102), wherein upon detection of the level of water exceeding a pre-defined limit, a controller (112) deactivates the cap assembly (100).

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