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(57) Abstract :

The water management system(1) integrates a water collecting tank(6) positioned at the level of a green water indicator(9) to harness gravitational force for water reuse. A circulation pipe(18) connects the pressure tanks to the water collecting tank for water reuse. A pressurized delivery system includes butterfly valves(14, 15) and a water delivery pipe(19) connected to control water pressure for moving the turbine peloton wheel(2). The nitrogen management system features a nitrogen gas receiver tank(27) connected to a nitrogen gas recovery pipeline(20) with a nitrogen receiver valve(36, 37) and a non-return valve(26) for controlled nitrogen gas flow. The opening of bottom butterfly valve(16) and top butterfly valves(13, 14) in the first pressure tank(11) enables water flow to the turbine nozzle valve(7), storing potential energy in the flywheel(4) for the subsequent conversion of mechanical energy into electrical energy using an alternator(5).

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