

ABSTRACT

A disc-shaped filter unit 2 including a filter main body 20 having a water absorbability and a holder 30 having a non water absorbability is disposed in a vertical orientation, with a part of a circumferential portion thereof immersed in water reserved in a water tank 18, and is rotated by a rotation drive mechanism 4 in a circumferential direction. The filter unit 2 has an absorptive region 2a and a non-absorptive region 2b arranged adjacent to each other in the circumferential direction. Therefore, in accordance with rotation of the filter unit 2 in the circumferential direction, a state where the absorptive region 2a is immersed and the filter main body 20 of the filter unit 2 absorbs water through a water-conduction hole 30a and a state where the non-absorptive region 2b is immersed and water absorption of the filter main body 20 is prevented by a watertight section 30b having a non water absorbability are continuously alternated.

As a result, with the filter unit 2 disposed in the vertical orientation and with the filter unit 2 immersed in the water, the filter unit 2 can be allowed to absorb water or water absorption of the filter unit 2 can be prevented.