CLAIMS

[Claim 1]

A water purification cartridge comprising:

a powdered filter material which is stored inside a casing including a raw water inlet and a purified water outlet; wherein:

an inner cylinder and an outer cylinder are provided in the casing, and an upper inner lid which covers an interval between the inner cylinder and the outer cylinder is provided in end portions of the inner cylinder and the outer cylinder on one and the same side;

the powdered filter material is stored in an annular columnar storage space which is formed by the inner cylinder, the outer cylinder and the upper inner lid; and

the upper inner lid is watertightly fitted and attached to an inside wall surface of the inner cylinder.

[Claim 2]

The water purification cartridge according to Claim 1, wherein at least one of the inner cylinder and the outer cylinder is constituted by a cylindrical support frame which includes a plurality of opening portions in a wall surface thereof, and a filter material which is fixed to the support frame so as to cover the opening portions.

[Claim 3]

The water purification cartridge according to Claim 1 or 2, wherein a hollow fiber membrane bundle is sealed and fixed to an inner side of the inner cylinder.

[Claim 4]

The water purification cartridge according to any one of Claims 1 through 3, wherein an elastic member is disposed between the powdered filter material and the upper inner lid.

[Claim 5]

The water purification cartridge according to Claim 4, wherein the elastic member is rubber, sponge made of synthetic resin, a foamed body, nonwoven fabric, or felt.

[Claim 6]

The water purification cartridge according to any one of Claims 1 through 5, wherein the powdered filter material has an average particle size of 30 μm to 150 μm, and total mass of the powdered filter material whose particle size is 50% or less of the average particle size is 10% or less relative to mass of the powdered filter material as a whole.

[Claim 7]

The water purification cartridge according to any one of Claims 1 through 6, wherein the powdered filter material has an average particle size of 30 μm to 150 μm, and a value of X is in a range of 40 to 60 when total mass of the powdered filter material whose