Claims

1. A water harvesting system comprising a first tank in fluid communication with a second tank and a sedimentator, wherein the first tank is adapted to collect water and release the water at a controlled rate to a drainage system, ~~and~~ wherein the first tank is further adapted to allow the water to accumulate and overflow into the second tank for storage, and wherein the first tank, the sedimentator and the second tank are adapted to share a side.

2. The water harvesting system of claim 1, wherein the ~~further comprising a~~ sedimentator comprises ~~for receiving the water and releasing the water via~~ an aperture at a position lower than that of the top edge of the shared side, allowing water to be released into the first tank via the aperture.

3. The water harvesting system of claim 2, wherein the sedimentator is adapted to control the rate of water release via the aperture into the first tank, and wherein the sedimentator is adapted to allow the water to accumulate and overflow into the second tank.

4. The water harvesting system of claim 3, wherein the sedimentator has a side for water to overflow into the second tank and the height of the side ranges from 0.3 m to 0.8 m.

5. The water harvesting system of claims 3 or 4, wherein the aperture has a cross-sectional diameter of 0.1 m to 0.25 m.

6. The water harvesting system of any one of claims 3 to 5, wherein the sedimentator has a base area of 1 m^2 to 36 m^2.

7. The water harvesting system of any one of claims ~~2~~ 1 to 6, ~~the first tank, the sedimentator and the second tank are adapted to~~ wherein a height of the shared ~~a~~ side is lower than that of an opposite side of the sedimentator such

that water will preferentially overflow along the edge of the shared side into the second tank.

8. The water harvesting system of any one of claims 1 to 7, wherein the sedimentator is located in the first tank.

9. The water harvesting system of any one of claims 1 to 8, wherein the sedimentator is located at a top portion of the shared side with the second tank.

10. The water harvesting system of any one of the preceding claims, the system comprising at least one collection channel.

11. The water harvesting system of claim 10, wherein the at least one collection channel comprises a filter screen.

12. The water harvesting system of any one of the preceding claims, wherein the first tank comprises an overflow outlet adapted to allow water to overflow into the drainage system.

13. The water harvesting system of any one of the preceding claims, wherein the water comprises surface runoff.

14. The water harvesting system of any one of the preceding claims, wherein the second tank is adapted to release the stored water to a water treatment facility.

15. The water harvesting system of any one of the preceding claims, wherein the system is located underground.

16. A water harvesting system comprising:

A sedimentator adapted to receive water from a collection channel;

A first tank adapted to receive water from the collection channel, and adapted to release the water at a controlled rate to a drainage system; and

A second tank,

Wherein the sedimentator is adapted to accumulate water and cause the water to overflow into the second tank via a shared side of the sedimentator and the second tank.

Claims

1. A water harvesting system comprising a first tank in fluid communication with a second tank and a sedimentator, wherein the first tank is adapted to collect water and release the water at a controlled rate to a drainage system, wherein the first tank is further adapted to allow the water to accumulate and overflow into the second tank for storage, and wherein the first tank, the sedimentator and the second tank are adapted to share a side.

2. The water harvesting system of claim 1, wherein the sedimentator comprises an aperture at a position lower than that of the top edge of the shared side, allowing water to be released into the first tank via the aperture.

3. The water harvesting system of claim 2, wherein the sedimentator is adapted to control the rate of water release via the aperture into the first tank, and wherein the sedimentator is adapted to allow the water to accumulate and overflow into the second tank.

4. The water harvesting system of claim 3, wherein the sedimentator has a side for water to overflow into the second tank and the height of the side ranges from 0.3 m to 0.8 m.

5. The water harvesting system of claims 3 or 4, wherein the aperture has a cross-sectional diameter of 0.1 m to 0.25 m.

6. The water harvesting system of any one of claims 3 to 5, wherein the sedimentator has a base area of 1 m^2 to 36 m^2.

7. The water harvesting system of any one of claims 1 to 6, wherein a height of the shared side is lower than that of an opposite side of the sedimentator such that water will preferentially overflow along the edge of the shared side into the second tank.

8. The water harvesting system of any one of claims 1 to 7, wherein the sedimentator is located in the first tank.

9. The water harvesting system of any one of claims 1 to 8, wherein the sedimentator is located at a top portion of the shared side with the second tank.

10. The water harvesting system of any one of the preceding claims, the system comprising at least one collection channel.

11. The water harvesting system of claim 10, wherein the at least one collection channel comprises a filter screen.

12. The water harvesting system of any one of the preceding claims, wherein the first tank comprises an overflow outlet adapted to allow water to overflow into the drainage system.

13. The water harvesting system of any one of the preceding claims, wherein the water comprises surface runoff.

14. The water harvesting system of any one of the preceding claims, wherein the second tank is adapted to release the stored water to a water treatment facility.

15. The water harvesting system of any one of the preceding claims, wherein the system is located underground.

16. A water harvesting system comprising:

A sedimentator adapted to receive water from a collection channel;

A first tank adapted to receive water from the collection channel, and adapted to release the water at a controlled rate to a drainage system; and

A second tank,

Wherein the sedimentator is adapted to accumulate water and cause the water to overflow into the second tank via a shared side of the sedimentator and the second tank.