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# GTU - Project Monitoring and Mentoring System



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# **PSAR Details**

**PSAR No.** : 20BE7\_180163107002\_4

# -Part - I : PATENT SEARCH TECHNIQUE USED

1. Patent Search Database Used : Google Patents

Web link of the Database : https://patents.google.com/

2. Keywords Used for Search : SMART,WATER,MANAGEMENT

3. Search String Used : smart Water management

4. Number of Results/Hits getting : 9999

# -Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA -

5. Category/Field of Invention

6. Invention is Related to/Class of Invention : This invention relates to a water collection, storage, and distribution system for gray water, rainw

**6a. IPC class of the studied patent** : E3B 7/2

7. Title of Invention : WATER COLLECTION, STORAGE, AND DISTRIBUTION SYSTEM

 8. Patent No.
 : US 8,141,584 B1

 9. Application No.
 : 12/468,146

9a. Web link of the studied patent https://patents.google.com/patent/US8141584B1/en?

q=smart+Water+management&oq=smart+Water+management

**10. Date of Filing/Application** : Mar. 27, 2012

11. Priority Date

12. Publication/Journal Number - (Issue No. of Journal in

which Patent is published)

13. Publication Date : 14. First Filled Country :

### 15. Also Published as

Country	Patent No
United States	US 8

# 16. Inventor

Name of Inventor	Address/City/Country of Inventor
Jeff Sweeney	US
Scott Ellyson	US

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#### 17. Applicant

Name of Applicant/Assignee	Address/City/Country of Applicant
East West Manufacturing LLC	US

18. Applicant for Patent is : Company

# -Part - III : TECHNICAL PART OF PATENTED INVENTION

#### 19. Limitation of Prior Technology/Art :

- -Storage limit
- -Need microprocessor to connect with internet
- -need numbers of water level measure sensor to measure the level of water

#### 20. Specific Problem Solved/Objective of Invention:

A water collection, storage, and distribution system includes one or more individual water storage tanks. Each water storage tank has its own microprocessor that controls the operation of the storage tank so that each storage tank can operate either as a stand-alone storage tank or can be integrated into a series or a daisy chain of storage tanks

## 21. Brief about Invention :

This invention relates to a water collection, storage, and distribution system for gray water, rainwater, condensate water, and water from any other source that might otherwise be dumped into a local water system or become part of water run off from a property.

#### 22. Key Learning Points :

-water storage tank has its own microprocessor that controls the operation of the storage tank so that each storage tank can operate either as a stand-alone storage tank or can be integrated into a series or a daisy chain of storage tanks.

# 23. Summary of Invention :

A water collection, storage, and distribution system includes one or more individual water storage tanks. Each water storage tank has its own microprocessor that controls the operation of the storage tank so that each storage tank can operate either as a stand-alone storage tank or can be integrated into a series or a daisy chain of storage tanks. Each individual storage tank monitors its water level, its temperature, and its flow rate. When a risk of freezing exists, based on time and temperature, the storage tank can dump water. When the water in the storage tank is approaching stagnation, based on flow rate and time, the storage tank can dump water. When a storage tank is part of a daisy chain of storage tanks, each individual tank monitors not only its own water level but also the water level of the next downstream storage tank and pumps water to the downstream storage tank as required.

24. Number of Claims : 15

25. Patent Status : Granted Patent & In-force Patent

26. How much this invention is related with your IDP/UDP? : < 70 %

27. Do you have any idea to do anything around the said invention to improve it? :

NO

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