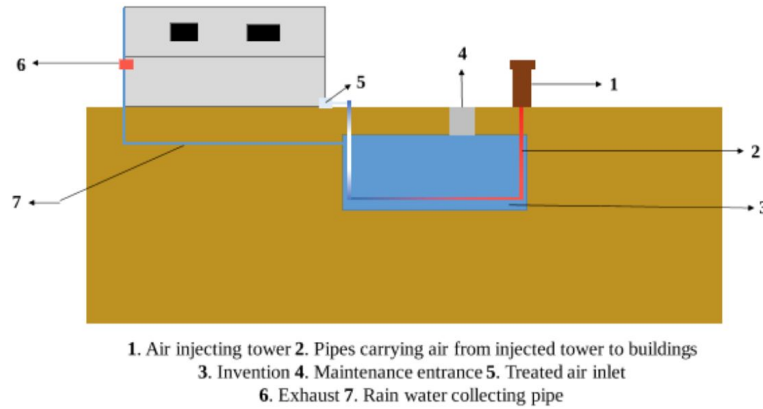


GRANTED

(IN529786)

System for water storage with heat exchange for treating ambient air



NEED

Water scarcity is a critical global issue, and energy-efficient climate control systems are in high demand. What if we could use rainwater to cool and heat buildings efficiently?

TECHNOLOGY OVERVIEW

This system utilizes rainwater for storage and temperature regulation within buildings. It incorporates a rainwater collection network, storage unit, and an air injection system for cooling and heating, offering a sustainable solution to water and energy challenges.

TECHNOLOGY KEY FEATURES

Rainwater harvesting, underground storage, thermal conductivity, air injection tower, exhaust fan, cooling and heating, energy-efficient, sustainable design, eco-friendly solution, temperature regulation without energy-intensive processes.

[Read more here](#)

MARKET ANALYSIS

The global rainwater harvesting market is expected to grow at a CAGR of 7.2% from 2023 to 2033, driven by the need for sustainable water management and energy-efficient solutions. [Source: Global Market Insights, 2023]

Target Industries

Water Management, Green Building Technologies, Renewable Energy, Construction and infrastructure developers, green building architects, water storage and treatment providers, HVAC system integrators, energy efficiency consultants, environmental organizations.

AT A GLANCE

- SDG 6 (Clean Water and Sanitation), SDG 7 (Affordable and Clean Energy), SDG 11 (Sustainable Cities and Communities)

Technology is available for licensing/ co-development.

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