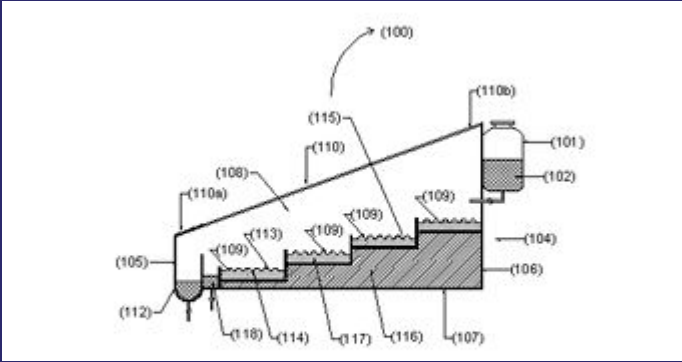


Granted IN402175

# Solar distillation apparatus



## NEED

Current solar distillation apparatus lacks cost-effectiveness and productivity for common household applications, hindering widespread adoption.

## SOLUTION

The invention aims to address these challenges by developing a reliable, cost-efficient, and ecological solar distillation apparatus for generating potable water.

## INNOVATION

The solar distillation apparatus comprises various features such as a pitched roof element, solar absorber panels coated with copper oxide nanoparticles, and a stepwise arrangement to enhance performance and productivity.

## MARKET ANALYSIS

Market: Water treatment and purification industry

CAGR: estimated to be around 8-10%.

Potential Indian Clients: Municipalities, residential communities, rural households, disaster relief organizations, and industries requiring purified water for various processes.

## WHY INVEST?

- Solar distillation
- Potable water
- Renewable technologies
- Reverse osmosis (RO)



## AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC A01G, B01D, B60S, C02F
- Domain  
Water distillation technology



Prof. Sandip Shridharrao Deshmukh,  
Prof. Vikrant Pradip Katekar

Department of, Mechanical  
BITS Pilani, Hyderabad Campus

For more information, reach out to (contact person), (designation), (organization) at (email ID) and (phone number)

