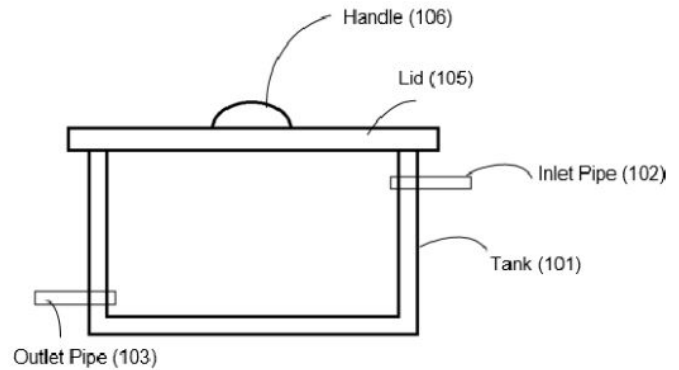


GRANTED

(IN318648)

Self purifying pervious concrete filter



NEED

Water contamination remains a critical issue, especially in rural and underserved areas. Traditional filtration systems often fail to remove biological contaminants effectively. What if a sustainable, cost-efficient filter could purify water more effectively?

TECHNOLOGY OVERVIEW

This patent introduces a pervious concrete water filter that uses a mixture of cementitious material, coarse aggregates, fly ash aggregates, and biological contaminants-removing ingredients like activated carbon, bleaching powder, and copper bars for purifying drinking water.

TECHNOLOGY KEY FEATURES

Pervious concrete, fly ash aggregates, activated carbon, bleaching powder, copper-based ingredients, biological contaminant removal, cost-effective water purification, sustainable solution, customizable mix ratio.

[Read more here](#)

MARKET ANALYSIS

The global water filtration market is projected to grow at a CAGR of 8.3% from 2023 to 2033, driven by increasing water contamination, the need for affordable solutions, and sustainable technologies. [Source: MarketsandMarkets, 2023]

Target Industries

Water Purification, Construction, Sustainable Development. , Water filtration system manufacturers, construction firms, environmental protection agencies, rural development organizations, water purification product developers.

AT A GLANCE

- SDG 6 (Clean Water and Sanitation), SDG 9 (Industry, Innovation, and Infrastructure), SDG 12 (Responsible Consumption and Production)

Technology is available for licensing/ co-development.

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