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## ASSEMBLY OF BOTANICAL BIOFILTRATION AND EVAPORATIVE COOLING FOR IMPROVED INDOOR ENVIRONMENTAL QUALITY



### ▶ MORE INFORMATION

#### MEGA-TREND

- Environment and Water

#### TECHNOLOGY READINESS LEVEL (TRL)

- TRL 6

#### PATENT/ GRANTED NUMBER

- UI 2020001720

### ▶ TECHNOLOGY OVERVIEW

The present invention discloses an assembly of botanical biofiltration and evaporative cooling for improving an indoor environmental quality to occupants of a space. The assembly comprises a receptacle with a cavity and a water reservoir, an evaporative cooling member comprising a mechanical fan and an evaporative corrugated plate for entrapping dust particles and removes odors from the said stream of air, a botanical biofiltration member comprising growth media comprising biologically-active fibers mounted on the receptacle for container-grown plants to degrade and reduce air contaminants diffused in the said biologically-active fibers as the said stream

of air passes through, and a water circulation member comprising a water pump for circulating water from the said water reservoir to the said evaporative corrugated plate and the said growth media.

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## **CONTACT US!**

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