

Multi-layer Stackable Worm Bin with Temperature and Humidity Monitoring

Description:

Configuration : The system comprises of the following parts (Figures 1 & 2):

1. **Worm Compost Tea Layer (101)**: This layer collects the drain-off or worm leachate from the layers above.
2. **Worm Bedding Layer (102)**: This is where the worms live most of the time. It has ample drainage holes to prevent flooding.
3. **Worm Feeding Layer (103)**: This is the layer where food scraps are added to feed the worms. Tiny ventilation holes are provided just below the lid. Larger holes on the base of this layer enable worms to move between the bedding and feeding layers.
4. **Temperature & Humidity Meter (104)**: This LED Meter enables the user to monitor the temperature and humidity inside the bin.
5. **Lightproof lid (105)**: Worms are photo phobic and this lid prevents any light from entering the bin from the top.
6. **Rack (201) with Ant Shields (202)**: These ant shields are smeared with a sticky and scented material that prevents ants from climbing up to the bins.

Options : In addition to the above elements, the user has the option to further expand by:

1. Adding additional bedding or feeding layers (Figure 3)
2. Adding more rack layers with additional bin systems (Figure 4).

Claims :

The system is unique and innovative because:

1. **Temperature and Humidity Monitoring**: The built-in humidity and temperature LED meter enables the user to be able to ensure the correct environment for worms to thrive.
2. **Rack with Ant Shields**: Ants are perhaps the biggest enemies of worms. This system comes with a rack that will prevent ants from easily entering the bin.
3. **Easy to Maintain / Clean**: Each bin layer can be easily removed for cleaning without the need to use any tools.
4. **Expandable** : The system is easily expandable by adding more feeding or bedding layers or by adding more racks with stackable worm bins.