



### AROMATIC FUMIGATION DEVICE IITM Technology Available for Licensing

#### Problem Statement

- The prior art fumigation devices **unable to provide** a comprehensive & cost effective solution for home/office fumigation application.
- Furthermore, the prior art fumigation devices are **unable to provide** an effective solution for **sanitizing** & eliminating infectious pathogens home/office environment.
- Based on the foregoing **a need** therefore exists for fumigation device for **sanitizing & controlling infectious pathogens** in home/office environment.
- Present invention addresses above issues by providing solutions efficiently.

#### Technology Category/Market

**Technology:** Fumigation device

**Industry:** Home Appliance, Commercial & Industrial;

**Applications:** Commercial & Industrial, Residential.

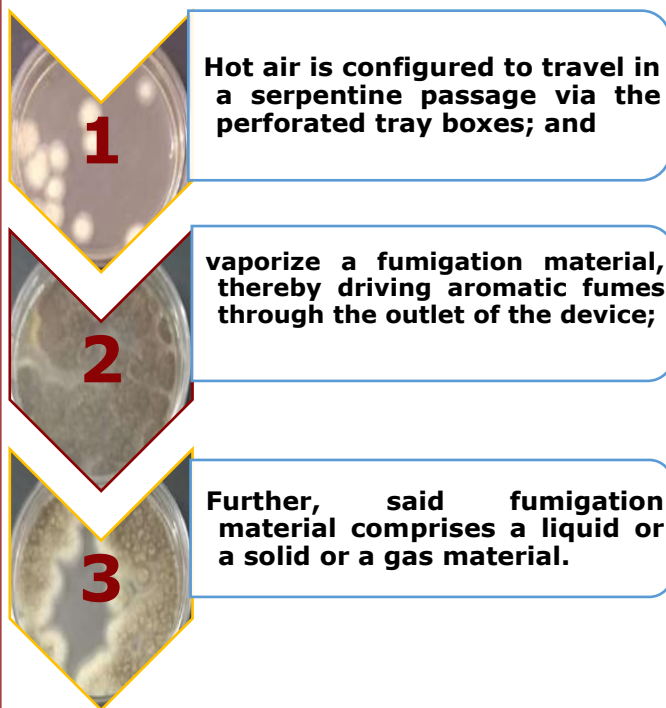
**Market:** The global fumigation products market is projected to grow **USD 7.66B** by 2030 at a **CAGR of 5.89%** during forecast period (**2024-2030**).

#### Technology

- Present invention describes **an aromatic fumigation device**.
- Said device comprises :
  - 1. rectangular housing;**
  - 2. a fan with motor unit;**
  - 3. a perforated circular plate;**
  - 4. a plurality of perforated tray boxes** having perforations on alternate sides of the tray boxes;
  - 5. at least one heating element**, wherein one of the heating elements is located in the first perforated tray box & configured to heat air entering the fumigation device;

- 6. cotton pads** configured to hold a fumigation material; and
- 7. a convergent cone** at the outlet of the device.

- The operation of claimed device is illustrated in the smart chart:



#### Intellectual Property

**IITM IDF Ref. 2050;**  
**IN Patent No. 534284 (Granted)**

#### TRL (Technology Readiness Level)

**TRL- 4**, Proof of Concept ready, tested & validated in Laboratory

#### Research Lab

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### Key Features / Value Proposition

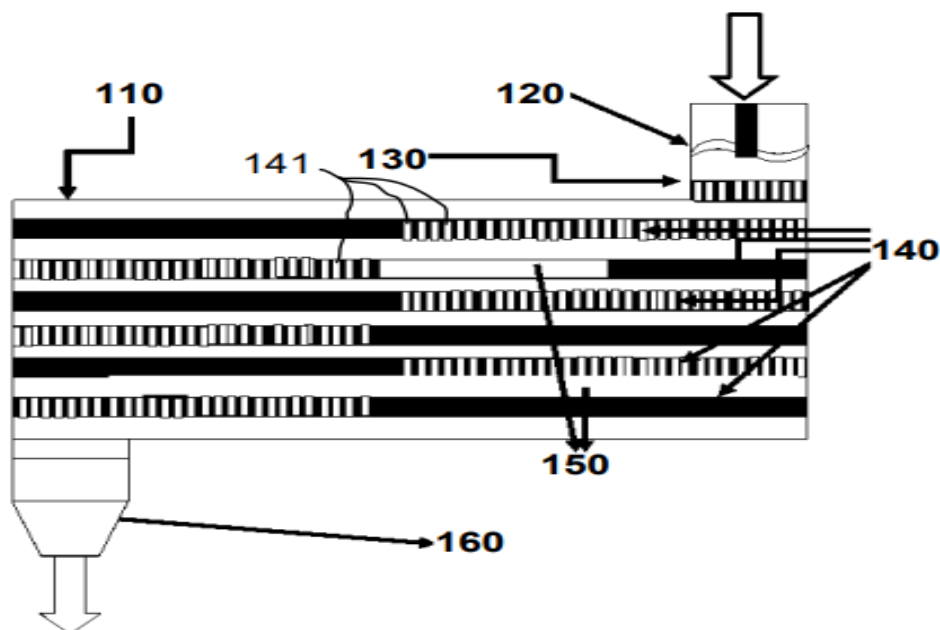
#### ❖ Technical Perspective:

- Claimed **aromatic fumigation device** is used for aromatic fumigation and thereby **disinfects** home/office environments from **pathogens** including, such as, **virus, bacteria and other fungus**.
- The device can use any type of **ayurvedic powders** & **liquids as fumigation material**, easy to replace the ayurvedic materials.
- The fumigation device is a **versatile piece of equipment** that uses a **fine spray** to apply the materials, such as, **ayurvedic powders/liquid solution for pest or odor control**.

#### ❖ Industrial Perspective:

- The fumigation device is **portable, easy to handle, cost-effective & less maintenance**.
- Provides cost effective solution for **sanitizing**, and **eliminating** infectious pathogens at home or office environment, and further to **spread fragrance**.

### Images



**FIG.1: : Illustrates schematic view of an aromatic fumigation device for aromatic fumigation and thereby disinfects home/office environments from pathogens including, such as, virus, bacteria and other fungus.**

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