

CLAIMS

1. ECO INCENSE BURNER comprising:

A) Cylindrical Main Body:

- Main Cylindrical Body in Stainless steel with the top-end Cover. There are arrays of holes at the top end circumference Of the main body. The exhaust hot air from burning will then discharge through these holes.
- 2 nos. of wicket position at the centre portion of the main body, which allows different user to burn the incense paper from opposite direction.
- Air inlet gap round the circumference of the bottom portion of the main body
- An ash collection chamber with a conical base and a door is located at the lowest end of the main body.

B) Assembly of top end discharge system located at the top inner portion of the main body.

- Short cylindrical exhaust pipe fitted at the centre of a conical shape cover.
- When burning a vortex formation is formed by the interaction of hot exhaust and fresh air cyclonically rotate around the exhaust pipe and the bottom portion of the conical cover. In this vortex formation, a centrifugal force will then force all heavy particles to the side; by gravity it is then drop to the bottom. Thus, when the centre of this vortex reached the lowest end of the exhaust pipe, the exhaust hot air would thus be discharge out through this short exhaust pipe.

C) Assembly of burning chamber at the inner centre portion of the main body.

- Burning tray consist of the round shaped upper tray and a lower tray. A rectangular plate fitted at the top of the upper tray would act as a divider that split the tray into two burning portions. The primary burning process will occur at the top tray while the remaining or un-burn incense paper would then drop into the bottom tray which will continue fresh

air drawn in from the main body air inlet gap through the bottom tray would thus continue to burn. This secondary burning process would then burn all un-burn incense paper and the fine ash would then drop down to the ash-collecting compartment at the bottom of the main cylindrical body.

- This rounded burning tray is confine in a hollow cylindrical ring. The diameter of hollow cylindrical ring is smaller than the diameter of the main cylindrical body which provide a gap between the burning assembly and the main body. This gap is thus use for the fresh air supply channel for the primary burning at the top-burning tray.

D) Ash collector compartment:

- This ash collector compartment comes in conical shape's base to allow the ashes to drop into the centre. It also comes with a door for ease to clear the ash.

2. Component:

- i) Main cylindrical body with arrays of holes at the top end circumference, two no's of wicket at the circumference of the center portion, air inlet gap round the circumference at the lower portion of the main body.
- ii) Exhaust pipe
- iii) Conical top cover
- iv) Double layer (top & bottom) burning Tray
- v) Partition
- vi) Hollow cylindrical Inner Ring
- vii) Triangular Stand