Claims

1. A landing pad comprising:

at least one integrally formed elongated hollow decking unit comprising:

an elongated landing plate having a plurality of holes;

an elongated base plate aligned longitudinally with respect to the elongated landing plate and spaced a distance apart from the elongated landing plate;

two elongated side wall plates connecting the elongated landing plate to the elongated base plate,

wherein the elongated landing plate, the elongated base plate, and the two elongated side wall plates define a hollow space,

wherein a diameter of each of the plurality of holes is approximately 0.01m to 0.03m and a distance apart between any two adjacent holes of the plurality of holes is approximately 0.02m to 0.08m in a breadthwise direction with respect to the elongated landing plate and approximately 0.06m to 0.12m in a lengthwise direction with respect to the elongated landing plate ~~configured to~~ for draining unburned aviation fuel spilled on the elongated landing plate through the plurality of holes into the elongated hollow decking unit in a manner so as~~and~~ to suppress flame of burning aviation fuel from propagating through the plurality of holes into the elongated hollow decking unit, and

wherein the distance apart between the elongated landing plate and the elongated base plate is approximately 0.12m to 0.18m to create a drop from the elongated landing plate to the elongated base plate such that drained unburned aviation fuel drop through the hollow space from the elongated landing plate onto the elongated base plate, wherein the drop in combination with the plurality of holes are for divorcing the burning aviation fuel from the drained unburned aviation fuel in a manner so as ~~configured~~ to prevent re-ignition of drained unburned aviation fuel on the elongated base plate and inside the hollow space of the elongated hollow decking unit.

~~2. The landing pad of claim 1, wherein the plurality of holes is configured to cause an expansion of the unburned fuel as the unburned fuel exits from the plurality of holes into the hollow space below the elongated landing plate.~~

~~3. The landing pad of claim 1 or 2, wherein the plurality of holes is dimensioned such that pressure of unburned fuel on the elongated landing plate is greater than the pressure of unburned fuel exiting the plurality of holes into the hollow space, and wherein the pressure of unburned fuel exiting the plurality of holes is greater than the pressure of unburned fuel passing through the plurality of holes.~~

~~4. The landing pad of any one of claims 1 to 3, wherein each of the plurality of holes is dimensioned to have a diameter of approximately 0.01m to 0.03m.~~

~~5. The landing pad of any one of claims 1 to 4, wherein a distance apart between any two adjacent holes of the plurality of holes is approximately 0.02m to 0.08m in a breadthwise direction with respect to the elongated landing plate, and approximately 0.06m to 0.12m in a lengthwise direction with respect to the elongated landing plate.~~

~~6. The landing pad of any one of claims 1 to 5, wherein a distance apart between the elongated landing plate and the elongated base plate is configured to be approximately 0.12m to 0.18m.~~

~~7~~2. The landing pad of ~~any one of~~ claim~~s~~ 1 ~~to 6~~, wherein the elongated hollow decking unit further comprises a elongated partition wall disposed between the two elongated side walls, wherein a longitudinal edge of the elongated partition wall joins with the elongated landing plate and the other longitudinal edge of the elongated partition wall joins with the elongated base plate.

~~8~~3. The landing pad of claim ~~7~~2, wherein the elongated hollow decking unit comprises two or more elongated partition walls.

~~9~~4. The landing pad of any one of claims 1 to ~~8~~3, wherein the elongated hollow decking unit is configured to slope in a longitudinal direction with respect to a horizontal plane.

~~10~~5. The landing pad of claim ~~9~~4, wherein a slope profile of the elongated hollow decking unit is approximately between 1:200 to 1:50.

~~11~~6. The landing pad of any one of claims 1 to ~~10~~5, wherein the two elongated side wall plates are arranged to be slanted.

~~12~~7. The landing pad of any one of claims 1 to 11, wherein the plurality of holes is ~~configured~~ dimensioned to limit ventilation into the elongated hollow decking unit.

~~13~~8. The landing pad of any one of claims 1 to ~~12~~7, wherein the plurality of holes is arranged randomly.

~~14~~9. The landing pad of any one of claims 1 to ~~12~~7, wherein the plurality of holes is arranged in a line.

~~15~~10. The landing pad of any one of claims 1 to ~~12~~7, wherein the plurality of holes is arranged in pairs of two holes having a fixed distance apart between the two holes in a pair.

~~16~~11. The landing pad of any one of claims 1 to ~~12~~7, wherein the plurality of holes is arranged in pairs of two holes with single holes interspersed among the pairs of two holes, wherein the two holes in a pair have a fixed distance apart.

~~17~~12. The landing pad of any one of claims ~~13~~ 8 to ~~16~~11, wherein the arrangement of the plurality of holes is repeated.

~~18~~13. The landing pad of any one of claims 1 to ~~17~~12, wherein an end of the elongated hollow decking unit is connected to an enclosed channel arranged substantially perpendicular to the elongated hollow decking unit.

~~19~~14. The landing pad of claim ~~18~~13, wherein a connection between the elongated hollow decking unit and the enclosed channel is configured to limit ventilation into the enclosed channel.

~~20~~15. The landing pad of claim ~~18~~ 13 or ~~19~~14, wherein the enclosed channel comprises external heat sink fins.