NON-CONTACT INSULATION TANK PANEL SYSTEM AND METHOD OF FABRICATING THE SAME

Abstract Of The Disclosure

A non-contact insulation panel system for cylindrical tank or the like is disclosed. The panel system comprises: a corrugated panel (70) made from metallic material such as aluminium with prefabricated groove (71) thereon; a plurality of vertical pins (42), spaced apart mounted substantially perpendicular onto the corrugated panel (70), wherein the pin (42) is provided with a perforated base (44) and a sharp tip (43) and the perforated base (44) is glued onto the corrugated panel (70); layer of insulation material (60) mounted onto the corrugated panel (70), wherein the sharp tip (43) of the vertical pin (42) passes through the insulation material (66) and holds the insulation material (60) in place, and wherein a self-locking washer (73) is disposed to the sharp tip (43) and is used to lock or secure the insulation material (66) to the corrugated panel (70), and wherein an insulation spacer (40) is finally mounted to the sharp tip (43) which is then bent sideway to secure the spacer (40) , thereby the insulation spacer (40) forms a gap between the corrugated panel (70) and the tank shell (30) when the insulation panel system is covered onto the tank shell (30) or the like.

(FIG. 1)