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(71) Applicant: **GERMICIDAL TECHNOLOGY SDN BHD**
[MY/MY]; 5, Jalan SiLC 1/7, Kawasan Perindustrian SiLC,
79200, Iskandar Puteri, Johor (MY).

(72) Inventor: **SIAW, Ah Eng**, 1, Jalan Sri Laguna ¼, Taman
Laguna, 81200 Johor Bahru, Johor (MY).

(74) Agent: **LOK, Choon Hong**, c/o PINTAS CONSULTING
GROUP SDN BHD, No. 19, Jalan SS 1/36, 47300 Petaling
Jaya, Selangor (MY).

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(54) Title: AN APPARATUS FOR DISINFECTING A TARGET SURFACE OR AIR

(57) Abstract: The present invention relates to the field of disinfection technology. More particularly, the present invention relates to an apparatus for disinfecting a target surface or air comprising (a) a light-emitting device; and (b) a coating deposited onto a surface of the light-emitting device, wherein the coating is derived from a composition comprising vibration-energy-containing nanoparticles, a binder, an acid-based surface additive, and an organic solvent, whereby the apparatus illuminates the target surface or air upon use thereby transferring the vibration energy of the vibration-energy-containing nanoparticles thereonto so as to disinfect the target surface or air.



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