ABSTRACT

Enhanced Spectrum Ultraviolet LED Insect Lamp

The present invention relates to specific spectrum conversions of an ultraviolet light emitting diode (11) narrow spectrum wavelength into an enhanced broad spectrum of light utilizing a spectral conversion material (12a) which is mounted on to a transparent housing (12b). The insect lamp illuminates with the enhanced spectrum (22) of light for achieving higher attraction rates of targeted insects. This lamp design can be used in electrical products that use conventional fluorescent tubes or other lamps that are used to attract insects and will provide an energy efficient and enhanced spectrum of light achieving higher attraction rates of targeted insects. Conversely, this lamp design can also be used to initiate a repellence in insects by utilizing unique combination ultraviolet light emitting diode (11) and different spectral conversion material (12a) materials.

FIG. 5