

## Gold Prize

### Seoul International Invention Fair 2009 (SIIF 20010)



#### Fluorescent Lamp Coated with Nano Titanium

Fluorescent lamp with T5 technology is the most energy efficient lamp in a current market. It can save energy up to 40% more than typical energy efficient incandescent lamp.

LeKise is the only brand offering the most energy efficient lamp with Energy label No.5 assurance.

Electrical Generating Authority of Thailand (EGAT) has nominated LeKise to be the only brand as part of its campaign of promotion Thai people to save energy and alleviate global warming

T5 lamp is environmental friendly. It is lead (Pb) free lamp.

The novel T5 fluorescent lamp, which is the innovation from cooperation between Fajamangala University of Technology (RMUTT) and Leekitcharoensang Co.,Ltd., is the T5 lamp coated with nano titanium dioxide thin film is created and coated on T5 lamp surface by Sol-Gel technique. Nano titanium dioxide acts as a photocatalyst, which has strong oxidizing effect when activated by ultraviolet light such as sunlight. The efficiencies of a photocatalyst are stain decomposition (cigarette tar,oil), antifogging usage (hydrophilic usage), airtreatment (organic compound) and anti-bacteria

**Patent application number :** pending

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