



Stichting Business
Generator Groningen



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Licensing Opportunity

OLED having a modulatable injection barrier

Technology

The invention relates to an organic light-emitting diode (OLED) with a modulatable injection barrier. The OLED comprises a blend of an electroluminescent semiconductor material and a ferroelectric material, sandwiched between two electrodes. It has two non-volatile states ("on" and "off"), and can be switched by a single electrical pulse. The device is suitable for variable image devices, where it combines the simplicity of a passive matrix display with the functionality of an active matrix display.

Business Opportunity

The technology is particularly suited for large light emitting signage applications like advertisement billboards and train station information boards where image needs to be changeable, yet the fabrication, maintenance as well as operating costs need to be minimized. The advantage of the invention is in cheap and easiness of fabrication in large area light emitting billboards where it has the further advantage of operating with low energy consumption.

Investment Opportunity

SBGG and RUG now seeking partners to discuss to develop and eventually market the technology.

Contact for further information:

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Company information:

SBGG is the technology transfer office of University of Groningen / University Medical Centre (the Netherlands)

Patent information:

An international patent application has been filed.

Development Status:

Technology has to be developed into a prototype.

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