

TITLE OF THE INVENTION (發明名稱)

- Method and system for automated activation of left-right directional blinking light
- Method and system for automated activation of left-right directional blinking laser light & LED when bicycle is making a left-right turn.

Field of Classification Search ----- see application file for complete search history.

References Cited

U.S PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

ABSTRACT (摘要)

The present invention relates to a method of combining Laser lighting device and LED lighting device into a system. The system has automated activation of Left/Right directional blinking light, which is identifiable as a vehicle tail lamp. The device includes a light module of hardware platform which includes 2-red laser diodes, 8-LEDs, and a main-PCB(Printed Circuit Board) layout of control circuit which comprises a motion-sensor and a micro-controller, with the ability to store data to control the system. The sensor in this system drive the MCU to relay command to both the 8-LEDs and 2-laser diodes.

After mounting the system, it enables the bicycle to have auto left/right directional blinking light.

(1)The LED lighting device provides Left/Right directional arrow signal change when turning Left/Right.

(2)The laser lighting device will blink simultaneously together with the LED diodes when doing a Left/Right turn in the same fashion.

(3)The automated brake light is triggered when the bike stop suddenly.

(4) Another automated safety mode of the device: " - " shape blinking light will be activated if the bike falls to the land.

This object is an intelligent accessory for preventive safety consumer appliance. Within the compact splash resistant body the device packs an automated directional light system and a conditioning sensing element. The light system provides both LASER and LED interface with build-in functionality signals. The sensing element is a MEMS device by proprietary detection technology. This system can further implemented into other usage(etc snowboarding, skidding) should such need arise.



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