A novel design of micro-magnetic sensor guidance system for the blind

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Abstract: It is reported that the most urgent issue for 90% of the blind is the sense of direction. Even today the blind is lack of electronic products to provide direction guide, a novel electrical blind stick system is designed in this paper, By listening to the alarm from the blind stick, the blind can judge whether they are walking on the blind road or not. This paper described the principle of the system the design way of magnetic markers in the system. Take magnetic intensity characteristic into consideration, MMC302xMG geomagnetic sensor is used as the detector of magnetic signal. At last, experiments are conducted to validate the feasibility of the magnetic guide system. © 2009 IEEE.

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