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(54) **LENS, LIGHT EMITTING DEVICE AND BACKLIGHT MODULE**

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See application file for complete search history.

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(57) **ABSTRACT**

A lens includes a light incident surface and a light output surface. The light incident surface includes a first region having points equidistant from the central point of a light emission surface of the light emitting element. The first region satisfies $\theta_a \leq \theta_1 \leq \theta_b$, wherein θ_1 is a first incident angle of any light emitting from the light emitting element. In a second region with $0^\circ < \theta_1 \leq \theta_b + 20^\circ$, the first incident angle of light having a minimum value of θ_2/θ_1 is between θ_a and θ_b , and $\theta_2/\theta_1 > 0.9$. In a third region with $0^\circ < \theta_1 \leq \theta_b + 10^\circ$, the first incident angle of light having a minimum value of θ_3/θ_1 is between θ_a and θ_b , and $\theta_3/\theta_1 > 0.9$. θ_2 is a second incident angle of the light of θ_1 when traveling in the lens, and θ_3 is a third incident angle of the light of θ_1 when emitting out of the lens.

18 Claims, 5 Drawing Sheets

