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LI et al.(10) **Pub. No.: US 2024/0244938 A1**(43) **Pub. Date: Jul. 18, 2024**(54) **DISPLAY DEVICE**(52) **U.S. Cl.**CPC **H10K 59/879** (2023.02); **H10K 59/8792**
(2023.02)(71) Applicant: **InnoLux Corporation**, Miao-Li County
(TW)(72) Inventors: **Wen-Tse LI**, Miao-Li County (TW);
Shih-Fu LIAO, Miao-Li County (TW);
I-An YAO, Miao-Li County (TW)(21) Appl. No.: **18/539,817**(22) Filed: **Dec. 14, 2023**(30) **Foreign Application Priority Data**

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ABSTRACT

A display device includes a first substrate, a light emitting unit and a first micro lens unit. The light emitting unit is arranged on the first substrate to provide a light. The first micro lens unit is arranged on the light emitting unit to adjust the traveling direction of the light, wherein there is a distance from the light emitting surface of the light emitting unit to a position of half the height of the first micro lens unit, the first micro lens unit has an arc surface, the first micro lens unit has a height, and the arc surface has a curvature radius, and the distance and the curvature radius satisfy the relationship: $0.5H \leq D \leq 3R1$, where D represents the distance, H represents the height, and R1 represents the curvature radius.

