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(19) **United States**(12) **Patent Application Publication****HAN et al.**(10) **Pub. No.: US 2024/0215329 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **DISPLAY DEVICE****H10K 59/126** (2006.01)**H10K 59/40** (2006.01)(71) Applicant: **LG Display Co., Ltd**, Seoul (KR)(52) **U.S. CL.**(72) Inventors: **Bumhee HAN**, Gyeonggi-do (KR);
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A display device includes a substrate which includes a display area including a first optical area and a normal area and a non-display area, a planarization layer disposed on the substrate, a plurality of light emitting diodes disposed on the planarization layer and includes an anode, an emission layer, and a cathode, a bank disposed to cover an end of the anode on the planarization layer, an encapsulation unit disposed to cover the plurality of light emitting diodes and the bank, a touch sensing unit disposed on the encapsulation unit and includes a plurality of touch electrodes, and a plurality of shielding patterns disposed between the encapsulation unit and the plurality of touch electrodes in the first optical area. The first optical area includes a transmission area in which the cathode exposes the bank.

