

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0215385 A1 Chu et al.

Jun. 27, 2024 (43) **Pub. Date:**

(54) DISPLAY APPARATUS HAVING AN AUXILIARY ELECTRODE

(71) Applicant: LG Display Co., Ltd., Seoul (KR)

(72) Inventors: Dong Il Chu, Paju-si (KR); Min Joo Kim, Paju-si (KR); Young Kyun Moon, Paju-si (KR); Sang Hyuk Won, Paju-si (KR); Seon Hee Lee, Paju-si (KR)

Appl. No.: 18/521,566

(22)Filed: Nov. 28, 2023

(30)Foreign Application Priority Data

Dec. 27, 2022 (KR) 10-2022-0185868

Publication Classification

(51) Int. Cl. H10K 59/80 (2006.01)H10K 59/122 (2006.01)

(52) U.S. Cl. CPC H10K 59/80522 (2023.02); H10K 59/122 (2023.02)

(57)**ABSTRACT**

A display apparatus including an auxiliary electrode are disclosed. The display apparatus includes a contact area between pixel areas. The auxiliary electrode is within the contact area. A planarization layer covering the auxiliary electrode includes an inclined surface overlapping with the contact area and an upper surface extending from the inclined surface. A connection electrode covering the inclined surface and the upper surface of the planarization layer is connected to the auxiliary electrode. A light-emitting device on each pixel area has first and second electrodes and a light-emitting layer. The light-emitting layer and the second electrode extends onto the connection electrode. The light-emitting layer exposes a portion of the connection electrode by a reflow pattern, and the second electrode is in contact with the portion of the connection electrode exposed by the light-emitting layer. Thus, a process of connecting the second electrode and the connection electrode may be simplified.

