

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0180004 A1 CHOI et al.

May 30, 2024 (43) **Pub. Date:**

(54) LIGHT EMITTING DISPLAY DEVICE

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

(72) Inventors: Howon CHOI, Paju-si (KR); Taehveon

KIM, Paju-si (KR)

Assignee: LG Display Co., Ltd., Seoul (KR)

Appl. No.: 18/345,580

(22) Filed: Jun. 30, 2023

(30)Foreign Application Priority Data

Nov. 24, 2022 (KR) 10-2022-0159242

Publication Classification

(51) Int. Cl.

H10K 59/80 (2006.01)H10K 50/17 (2006.01) H10K 59/121 (2006.01)H10K 59/122 (2006.01)(2006.01)H10K 59/126

(52) U.S. Cl.

CPC H10K 59/879 (2023.02); H10K 50/171 (2023.02); H10K 59/1213 (2023.02); H10K 59/122 (2023.02); H10K 59/126 (2023.02); H10K 59/878 (2023.02)

(57)ABSTRACT

A light emitting display device can include a first planarization layer on a substrate, a nano-based layer having a plurality of nano particles on the first planarization layer, a first buffer layer on the nano-based layer, a reflective layer on the first buffer layer, a second planarization layer on the reflective layer, and a light emitting element on the second planarization layer.

