



US 20240215327A1

(19) **United States**(12) **Patent Application Publication**
CHOE et al.(10) **Pub. No.: US 2024/0215327 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **LIGHT EMITTING DISPLAY DEVICE**(71) Applicant: **LG Display Co., Ltd.**, Seoul (KR)(72) Inventors: **Dong Cheol CHOE**, Paju-si (KR);
Yoon Sung KIM, Paju-si (KR)(21) Appl. No.: **18/454,631**(22) Filed: **Aug. 23, 2023**(30) **Foreign Application Priority Data**

Dec. 21, 2022 (KR) 10-2022-0180679

Publication Classification(51) **Int. Cl.****H10K 59/122** (2006.01)**H10K 59/35** (2006.01)**H10K 59/80** (2006.01)(52) **U.S. Cl.**CPC **H10K 59/122** (2023.02); **H10K 59/35**
(2023.02); **H10K 59/80521** (2023.02)

(57)

ABSTRACT

Disclosed is a light emitting display device including a substrate, a bank provided on the substrate, the bank being configured to divide a first emissive portion and a second emissive portion from each other, the bank having a trench, a first common layer provided over the first emissive portion, the bank, and the second emissive portion, a first color emissive layer provided on the first common layer in the first emissive portion, a second color emissive layer provided on the first common layer in the second emissive portion, a stack of layers formed by overlapping of a first auxiliary color emissive layer provided on the same layer as the first color emissive layer and a second auxiliary color emissive layer provided on the same layer as the second color emissive layer on the bank including the trench, and a cathode spaced apart from the first common layer by the stack of layers.

