

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0244934 A1

Jul. 18, 2024 (43) **Pub. Date:**

(54) **DISPLAY DEVICE**

(71) Applicant: Samsung Display Co., LTD., Yongin-si

(72) Inventors: Keun Woo PARK, Yongin-si (KR); Joung Keun PARK, Yongin-si (KR); Joo Hwan PARK, Yongin-si (KR)

(73)Assignee: Samsung Display Co., LTD., Yongin-si

(KR)

Appl. No.: 18/496,271 (21)

(22)Filed: Oct. 27, 2023

(30)Foreign Application Priority Data

(KR) 10-2023-0005932

Publication Classification

(51) Int. Cl.

H10K 59/80 (2006.01)H10K 59/122 (2006.01)H10K 59/35 (2006.01) (52) U.S. Cl.

CPC H10K 59/875 (2023.02); H10K 59/122 (2023.02); H10K 59/35 (2023.02); H10K *59/873* (2023.02)

(57)ABSTRACT

A display device includes a first base portion including a first emission area and a non-emission area, a first light emitting element on the first base portion, a thin film encapsulation layer on the first light emitting element, a filler on the thin film encapsulation layer, a second base portion on the filler, a first color filter on the second base portion, a bank pattern layer on the first color filter and a first wavelength conversion pattern layer on the first color filter. The bank pattern layer includes a first portion and a second portion, the first wavelength conversion pattern layer is between the first portion and the second portion of the bank pattern layer, the first wavelength conversion pattern layer and the bank pattern layer are spaced apart from each other with a separation space therebetween, and the filler is in the separation space.

