



(19) **United States**

(12) **Patent Application Publication**
KIM et al.

(10) Pub. No.: US 2024/0215295 A1

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

(54) **ORGANIC LIGHT EMITTING DIODE AND
ORGANIC LIGHT EMITTING DEVICE**

H10K 50/15 (2006.01)

H10K 50/16 (2006.01)

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

(52) U.S. Cl.

CPC *H10K 50/818* (2023.02); *H10K 50/125*
(2023.02); *H10K 50/15* (2023.02); *H10K*
50/166 (2023.02); *H10K 2102/351* (2023.02)

(72) Inventors: **Seung-Hyun KIM**, Paju-si (KR);
Young-Kwan JUNG, Paju-si (KR);
Hee-Yeol KIM, Paju-si (KR)

(57)

ABSTRACT

An organic light emitting diode (OLED) and an organic light emitting device comprising the OLED (e.g., a display device or a lighting device) are described. The OLED includes a plurality of emitting parts each of which can include an emitting material layer between two electrodes. Each of the emitting material layers is spaced apart from each other or from the electrodes. As the distances among the electrodes and the emitting material layers and/or among emitting material layers are controlled, the OLED can secure sufficient amount of light emission as well as beneficial luminous efficiency and wide viewing angle.

(21) Appl. No.: 18/481,709

(22) Filed: **Oct. 5, 2023**

(30) **Foreign Application Priority Data**

Dec. 19, 2022 (KR) 10-2022-0178101

Publication Classification

(51) **Int. Cl.**

H10K 50/818 (2006.01)

H10K 50/125 (2006.01)

100

