

# (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2024/0251663 A1 Lee et al.

Jul. 25, 2024 (43) **Pub. Date:** 

## (54) LIGHT-EMITTING DEVICE INCLUDING AMINE-CONTAINING COMPOUND, ELECTRONIC APPARATUS INCLUDING THE LIGHT-EMITTING DEVICE, AND THE AMINE-CONTAINING COMPOUND

### (71) Applicant: Samsung Display Co., Ltd.

(72) Inventors: Jeongmin Lee, Yongin-si (KR); Minji Kim, Yongin-si (KR); Hankyu Pak, Yongin-si (KR); Hyunbin Park, Yongin-si (KR); Byeongwook Yoo, Yongin-si (KR); Sohee Jo, Yongin-si

(KR)

(21) Appl. No.: 18/236,882

(22)Filed: Aug. 22, 2023

(30)Foreign Application Priority Data

Dec. 15, 2022 (KR) ...... 10-2022-0176244

#### **Publication Classification**

(51) Int. Cl. H10K 85/60 (2006.01)C09K 11/06 (2006.01)H10K 50/15 (2006.01)

(52)U.S. Cl. ..... H10K 85/633 (2023.02); C09K 11/06 CPC .....

(2013.01); H10K 50/15 (2023.02); H10K

85/615 (2023.02); C09K 2211/1014 (2013.01)

#### (57)**ABSTRACT**

A light-emitting device that includes an amine-containing compound. An electronic apparatus and an electronic equipment that includes the light-emitting device. Utilization of the amine-containing compound in the light-emitting device may enhance or improve the operating characteristics of the device, such as driving voltage, luminance, efficiency, and/ or lifespan.

