



US 20240244874A1

(19) **United States**

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

(10) **Pub. No.: US 2024/0244874 A1**

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

(54) **ORGANIC ELECTRONIC ELEMENT AND
DISPLAY DEVICE**

Publication Classification

(51) **Int. Cl.**

H10K 50/13 (2006.01)

H10K 50/15 (2006.01)

H10K 50/17 (2006.01)

H10K 85/60 (2006.01)

(52) **U.S. Cl.**

CPC **H10K 50/13** (2023.02); **H10K 50/15**

(2023.02); **H10K 50/17** (2023.02); **H10K**

85/622 (2023.02); **H10K 85/633** (2023.02);

H10K 85/6574 (2023.02); **H10K 85/6576**

(2023.02)

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

(72) Inventors: **Ji Cheol SHIN**, Gyeongsangnam-do
(KR); **Seongsu JEON**, Gyeonggi-do
(KR); **Su Bin AHN**, Gyeonggi-do (KR);
KyungHoon LEE, Gyeonggi-do (KR);
Youngjun YU, Gyeonggi-do (KR)

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

(21) Appl. No.: **18/528,492**

(22) Filed: **Dec. 4, 2023**

(30) **Foreign Application Priority Data**

Dec. 31, 2022 (KR) 10-2022-0191390

(57)

ABSTRACT

Embodiments of the present disclosure relate to an organic light emitting element and a display device. Specifically, there may be provided an organic light emitting element including a first compound represented by chemical formula 1 and a second compound represented by chemical formula 2 to provide excellent efficiency, long lifespan or low driving voltage and a display device including the organic light emitting element.

800

