



US 20240251669A1

(19) **United States**

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

(10) **Pub. No.: US 2024/0251669 A1**

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

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

Publication Classification

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

(51) **Int. Cl.**
H10K 85/60 (2006.01)
H10K 50/15 (2006.01)

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

(52) **U.S. Cl.**
CPC **H10K 85/654** (2023.02); **H10K 50/15** (2023.02); **H10K 85/622** (2023.02); **H10K 85/6572** (2023.02)

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

(57) **ABSTRACT**

(21) Appl. No.: **18/534,289**

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.

(22) Filed: **Dec. 8, 2023**

(30) **Foreign Application Priority Data**

Dec. 31, 2022 (KR) 10-2022-0191385

100

