



US 20240237384A1

(19) **United States**

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

(10) **Pub. No.: US 2024/0237384 A1**

(43) **Pub. Date: Jul. 11, 2024**

(54) **ORGANIC ELECTROLUMINESCENT
DEVICE**

50/171 (2023.02); *H10K 71/12* (2023.02);
H10K 85/6574 (2023.02); *H10K 85/658*
(2023.02)

(71) Applicant: **SFC CO., LTD.**, Cheongju-si (KR)

(72) Inventors: **Soon Wook Cha**, Cheongju-si (KR); **Ji
Won Lee**, Cheongju-si (KR); **Tae Jung
Yu**, Cheongju-si (KR); **Yong Woon
Yang**, Cheongju-si (KR)

(21) Appl. No.: **18/545,779**

(22) Filed: **Dec. 19, 2023**

(30) **Foreign Application Priority Data**

Dec. 21, 2022 (KR) 10-2022-0180226

Publication Classification

(51) **Int. Cl.**

H10K 50/12 (2006.01)

H10K 50/15 (2006.01)

H10K 50/16 (2006.01)

H10K 50/17 (2006.01)

H10K 71/12 (2006.01)

H10K 85/60 (2006.01)

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

CPC *H10K 50/12* (2023.02); *H10K 50/15*
(2023.02); *H10K 50/16* (2023.02); *H10K*

(57)

ABSTRACT

An organic electroluminescent device including a first electrode, a second electrode, and an organic layer formed between the first electrode and the second electrode. The organic layer includes a light emitting layer formed using a solution containing an organic electroluminescent material and a solvent. The organic electroluminescent material includes a host and a dopant, and the host is one or more compounds represented by [Formula A] below.

[Formula A]

