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(19) **United States**(12) **Patent Application Publication**
LEE et al.(10) **Pub. No.: US 2023/0232650 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **ORGANOELECTROLUMINESCENT DEVICE
USING POLYCYCLIC AROMATIC
COMPOUNDS***H10K 50/11* (2006.01)*H10K 71/12* (2006.01)*H10K 85/60* (2006.01)*H10K 85/40* (2006.01)(71) Applicant: **SFC CO., LTD**, Cheongju-si (KR)(72) Inventors: **Chun-young LEE**, Cheongju-si (KR);
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H10K 85/658 (2023.02)(73) Assignee: **SFC CO., LTD**, Cheongju-si (KR)(21) Appl. No.: **17/912,298**(22) PCT Filed: **Mar. 19, 2021**(86) PCT No.: **PCT/KR2021/003433**

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An organoelectroluminescent device according to the present invention is capable of low voltage driving, has an excellent external quantum efficiency and exhibits highly efficient light-emitting characteristics by employing compounds having distinct structures, as a hole transport material and a dopant material, in a hole injection layer or a hole transport layer, and a light-emitting layer, respectively, and thus can be industrially utilized in a flat display device, a flexible display device, a monochrome or white flat panel lighting apparatus, a monochrome or white flexible lighting apparatus and the like.