

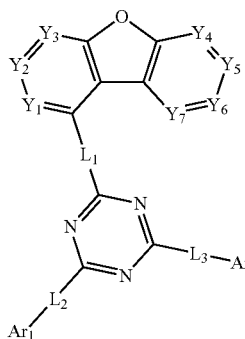


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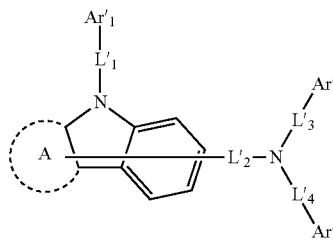
(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2024/0237518 A1**
(43) **Pub. Date: Jul. 11, 2024**(54) **ORGANIC LIGHT EMITTING DEVICE**(71) Applicant: **LG CHEM, LTD.**, Seoul (KR)(72) Inventors: **Minjun KIM**, Daejeon (KR); **Dong Hoon LEE**, Daejeon (KR); **Sang Duk SUH**, Daejeon (KR); **Young Seok KIM**, Daejeon (KR)(21) Appl. No.: **18/283,763**(22) PCT Filed: **Nov. 16, 2022**(86) PCT No.: **PCT/KR2022/018043**§ 371 (c)(1),
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H10K 85/6576 (2023.02); **H10K 2101/90**
(2023.02)(57) **ABSTRACT**

Provided is an organic light emitting device comprising: an anode; a cathode; and a light emitting layer between the

anode and cathode, the light emitting layer comprising a compound of Chemical Formula 1 and a compound of Chemical Formula 2:



[Chemical Formula 1]



[Chemical Formula 2]

wherein any one of Y₁ to Y₇ is N and the others are CR; Ar₁ and Ar₂ are each independently a substituted or unsubstituted C₆₋₆₀ aryl or C₂₋₆₀ heteroaryl containing at least one of N, O and S; A is fused with an adjacent pentagonal ring and is a benzene ring that is unsubstituted or substituted with deuterium, or a naphthalene ring that is unsubstituted or substituted with deuterium; Ar'₁ to Ar'₃ are each independently a substituted or unsubstituted C₆₋₆₀ aryl or C₂₋₆₀ heteroaryl containing at least one of N, O and S; and the other substituents are as described in the specification.

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