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(19) **United States**(12) **Patent Application Publication**
NAKANO et al.(10) **Pub. No.: US 2024/0215447 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **ORGANIC ELECTROLUMINESCENT
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§ 371 (c)(1),

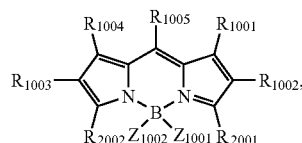
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H10K 50/12 (2023.02)(57) **ABSTRACT**

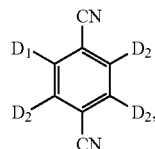
An organic electroluminescence device may include an emitting layer between an anode and a cathode, in which the emitting layer contains a first compound that fluoresces, a second compound that exhibits delayed fluorescence, and a third compound. The first compound may have formula (1):

(1)



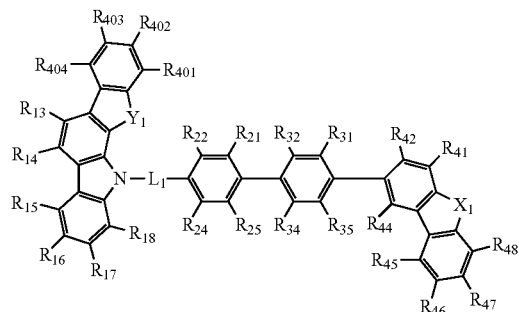
the second compound may have formula (2):

(2)



the third compound may have formula (3):

(3)



, and

a singlet energy of the first compound $S_1(M1)$, a singlet energy of the second compound $S_1(M2)$, and a singlet energy of the third compound $S_1(M3)$ satisfy a Inequality

$$S_1(M3) > S_1(M2) > S_1(M1)$$

(Eq. 1).

