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(54) **OPTO-ELECTRONIC DEVICE AND
ELECTRONIC APPARATUS INCLUDING
THE SAME**

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(57)

ABSTRACT

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Provided is an opto-electronic device including a first electrode, a second electrode facing the first electrode, and a photoactive layer arranged between the first electrode and the second electrode, wherein the photoactive layer includes a first layer and a second layer, the first layer including a first compound, and the second layer including a second compound that does not include a 5-membered ring, the first compound is an electron-donating compound, the second compound is an electron-accepting compound, and the opto-electronic device satisfies Equation 1:

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$$0.1 \leq (E^1_{LUMO} - E^2_{LUMO}) / (E^1_{LUMO} - E^1_{HOMO}) \leq 0.5 \quad \text{Equation 1}$$

wherein, in Equation 1, E^1_{LUMO} , E^1_{HOMO} , and E^2_{LUMO} are each as defined herein.

