



US 20240237381A9

(19) **United States**
(12) **Patent Application Publication**
KIMOTO

(10) **Pub. No.: US 2024/0237381 A9**
(48) **Pub. Date: Jul. 11, 2024**
CORRECTED PUBLICATION

(54) **LIGHT-EMITTING ELEMENT,
LIGHT-EMITTING DEVICE,
LIGHT-EMITTING DEVICE PRODUCTION
METHOD, AND ELECTRONIC DEVICE**

(71) Applicant: **SHARP KABUSHIKI KAISHA**, Sakai
City, Osaka (JP)

(72) Inventor: **KENJI KIMOTO**, Sakai City, Osaka
(JP)

(21) Appl. No.: **18/278,522**

(22) PCT Filed: **Mar. 3, 2021**

(86) PCT No.: **PCT/JP2021/008150**

§ 371 (c)(1),

(2) Date: **Aug. 23, 2023**

Prior Publication Data

(15) Correction of US 2024/0138172 A1 Apr. 25, 2024
See (22) PCT Filed.
See (86) PCT No.

(65) US 2024/0138172 A1 Apr. 25, 2024

Publication Classification

(51) **Int. Cl.**
H10K 50/115 (2006.01)
H01L 33/06 (2006.01)
(52) **U.S. Cl.**
CPC **H10K 50/115** (2023.02); **H01L 33/06**
(2013.01)

(57) **ABSTRACT**

A light-emitting element includes a light-emitting layer provided between a first electrode and a second electrode and including quantum dots, and an interposition film interposed between the first electrode and the light-emitting layer, and the interposition film includes a halogen simple substance including first halogen atoms.

