

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0213226 A1 YU et al.

Jun. 27, 2024 (43) **Pub. Date:**

(54) LIGHT-EMITTING MODULE AND METHOD OF MANUFACTURING THE SAME, DISPLAY **APPARATUS**

- (71) Applicants: Fuzhou BOE Optoelectronics Technology Co., Ltd., Fujian (CN); **BOE TECHNOLOGY GROUP CO.,** LTD., Beijing (CN)
- (72) Inventors: Hui YU, Beijing (CN); Han ZHANG, Beijing (CN); Qifei CHEN, Beijing (CN); Dingjie ZHENG, Beijing (CN); Ming CHEN, Beijing (CN); Laiyou CUI, Beijing (CN); Chengkun LIU, Beijing (CN)
- (73) Assignees: Fuzhou BOE Optoelectronics Technology Co., Ltd., Fujian (CN); BOE TECHNOLOGY GROUP CO., LTD., Beijing (CN)

(21) Appl. No.: 18/044,320

(22) PCT Filed: Jun. 30, 2022 (86) PCT No.: PCT/CN2022/103194 § 371 (c)(1), Mar. 7, 2023 (2) Date:

Publication Classification

(51) Int. Cl. H01L 25/075 (2006.01)H01L 33/62 (2006.01)

U.S. Cl. CPC H01L 25/0753 (2013.01); H01L 33/62 (2013.01); H01L 2933/0066 (2013.01)

(57)ABSTRACT

A light-emitting module includes a carrier substrate, a first light-emitting circuit layer, a backboard, a mounting cavity and at least one connection member. The first light-emitting circuit layer is disposed on the carrier substrate. The backboard is disposed on a side of the carrier substrate away from the first light-emitting circuit layer and is in contact with the carrier substrate. The mounting cavity is disposed in at least one of the backboard and the carrier substrate, and an inner wall of the mounting cavity is enclosed by both the backboard and the carrier substrate. A connection member is disposed in the mounting cavity and fixedly connected to the carrier substrate and the backboard.

<u>A1-A2</u>

